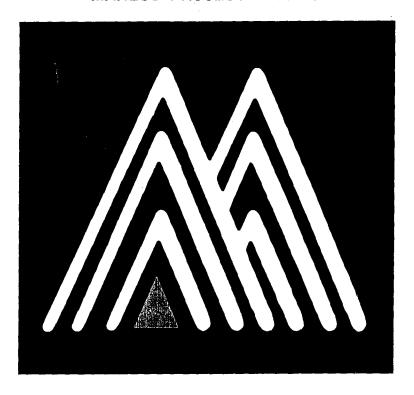
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REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

MANESS PROJECT # 40443



Prepared For: McDonnell Douglas Corporation 3855 Lakewood Boulevard Long Beach, California 90802

Prepared By:

Maness Environmental Services, Inc.

1101 East Spring Street

Long Beach, California 90807

August 22, 1994



August 22, 1994

Maness Project # 40443

Fire Department City of Los Angeles Permit # 3757

Mr. Scott Lattimore

McDonnell Douglas Corporation
19503 South Normandie Avenue
Torrance, California 90502

RE: UNDERGROUND STORAGE TANK REMOVAL CLOSURE REPORT, 19503 S. Normandie Avenue in Torrance, California.

Dear Mr. Lattimore:

Enclosed please find Maness Environmental Services, Inc., (Maness) final report for the closure of two 7,500 gallon and two 500 gallon hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) at the McDonnell Douglas Aircraft Facility at the above referenced site.

The work completed consisted of: (1) excavation, removal and disposal of the USTs and associated piping, (2) soil sample collection and analysis from beneath the former UST and spoils pile locations, (3) a site assessment, and (4) a final tank closure report, summarizing the results of all field activities and analytical testing.

Results of laboratory testing indicated that elevated concentrations of total recoverable petroleum hydrocarbons were detected in the spoils piles and in the area of the 500 gallon USTs. Maness completed a site assessment and subsequently removed the impacted soil from the excavation of the 500 gallon UST locations. The impacted soil was disposed at an approved recycling facility.

1101 East Spring Street ● P.O. Box 7917 Long Beach, CA 90807-0917 ● Contractor License No. 553633 (310) 595-4555 FAX: (310) 492-6495

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.

Gabriele E. Baade Project Geologist

cc: Los Angeles City Fire Department

Bureau of Fire Prevention

Plan Check Unit

200 North Main Street, Room 920 Los Angeles, California 90012

Attn.: Inspector Cooper

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REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

1.0 INTRODUCTION

This report summarizes tank closure operations recently completed at the McDonnell Douglas Aircraft Facility at the above referenced site.

1.1 PURPOSE AND SCOPE OF WORK

McDonnell Douglas Corporation (Douglas) engaged Maness Environmental Services, Inc., (Maness) to remove and dispose of two 7,500 gallon and two 500 gallon single wall hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) and associated piping at the DAC C6 facility in Torrance at the above referenced site. Figure 1 shows the location of the USTs at the facility. In addition, Maness personnel collected soil samples after the UST removal to determine whether contents previously stored in the underground storage tanks have impacted the surrounding subsurface soil.

2.0 FIELD ENGINEERING

2.1 TANK REMOVAL OPERATIONS

Before commencement of work, on behalf of the client, Maness applied for an underground storage tank closure permit at the Los Angeles City Fire Department, Underground Tank Enforcement Unit (LAFD) in Los Angeles, California. Work began as soon as the permit (#3757) was approved by LAFD (Appendix A - UST Removal Permit).

While excavating USTs or the soil in the vicinity of the USTs, the South Coast Air Quality Management District (SCAQMD) requires that the soil be monitored for volatile organic vapors (Rule 1166). Vapor concentrations are monitored to avoid adverse affects on the health and safety of personnel by using the appropriate personnel protective equipment and vapor suppressant methods.

In July 1994, during excavation of soil in the vicinity of the tanks, the soil was monitored by Maness personnel for fuel contamination. A portable organic vapor analyzer (OVA, Foxboro Model 128 GC) was passed over each load of soil removed from the excavation and the surface of the stockpiles in accordance with SCAQMD Rule 1166.

Organic vapor concentrations were not detected during the excavations. However, some discolored soil was detected in both excavations. Subsequently, the impacted soil was separated, stock piled and covered with visqueen. The SCAQMD Rule 1166 monitoring records are included in Appendix B.

On July 5, 1994, Maness properly cleaned and triple rinsed the underground storage tanks per regulatory requirements to the extent necessary for the tank removal as to minimize generating excess rinsate. The USTs were pressure rinsed sufficiently until satisfactory lower explosive limits (LEL) and total oxygen content levels were achieved. Douglas engaged Laidlaw Environmental Services, Inc. to transport the tank rinsate to Chem-Tech Systems, Inc. in Los Angeles, California, for recycling. The hazardous waste manifest is included in Appendix C.

A marine chemist certified the USTs safe for transport. Under the direction of the Los Angeles City Fire Department Inspector, Maness removed the USTs from the excavation and transported the USTs and associated piping to Lopez General Engineering Contractor in Signal Hill, California. The marine chemist certificate and the tank disposal certificate are included in Appendix D and Appendix E, respectively.

2.2 SOIL SAMPLING

Upon completion of tank removal operations, under the direction of the LAFD inspector, Maness personnel collected eleven (11) soil samples each beneath the former USTs and from the spoils piles at the subject site. Figure 1 is a site plan showing the former UST and the soil sample locations. The soil samples were collected from the UST excavation with the bucket of a back hoe tractor. The soil samples collected from the spoils piles adjacent to the excavation were collected using a hand auger sampling system.

The soil samples were collected from the following locations (see Figure 2 - UST and Soil Sample Locations South): One soil sample was collected beneath the center of each of the 500 gallon USTs, at 7 feet below grade (ft bg). A total number of three soil samples were collected beneath the two 7,500 gallon USTs, at 14 ft bg. Three samples were collected from the spoils pile (SP1 through SP3). These USTs previously contained hydraulic oil.

Figure 3 shows the former location of two 50,000 gallon USTs previously containing fuel oil. Three soil samples were collected beneath each of the tanks, at the north end, south end and the center at 16 ft bg. In addition, eight (8) soil samples were collected from the spoils piles located adjacent to the excavation. All tank confirmation samples were collected approximately three feet beneath the bottom of the former UST locations.

The soil samples were packaged in 250 milliliter Qorpak glass jars, sealed with Teflon lined lids and labeled. The samples were delivered to a mobile, on-site, state certified, analytical laboratory for immediate testing. Laboratory results and chain of custody documents are included in Appendix F and Appendix G, respectively. Maness personnel conducted all work under the direction of a California registered geologist.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subject site overlies alluvial sediments consisting of medium brown, coarse to fine grained silty sand and light brown to light gray, coarse to fine grained sand. The surrounding topography is consistently flat. The ground surface elevation is approximately 51 feet above mean sea level (MSL).

A review of the Los Angeles County Department of Public Works hydrologic records indicates, that the first groundwater beneath the site is approximately 101 feet below ground surface. Well # 794 C is located south of 190th Street, between Western and Normandie Avenue, on the Douglas property. The monitoring well was last measured on October 15, 1993. Groundwater was not encountered during the excavation.

4.0 LABORATORY TESTING

4.1 METHODS OF ANALYSIS

Laboratory samples were collected, maintained, prepared and analyzed according to <u>Test Methods for Evaluating Solid Waste</u>, (SW-846), Third Edition, Update #2, November 1990. These methods as prescribed by the Environmental Protection Agency (EPA) provide test procedures which determine whether the sample is a hazardous waste within the definition of the Resource Conservation Recovery Act (RCRA).

A state certified, analytical laboratory (Jones Environmental, Inc., Fullerton, California) analyzed the confirmation samples, collected from beneath the former UST and spoils pile locations. The UST and spoils pile confirmation samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1, total petroleum hydrocarbons in accordance with California Department of Health Services (CADOHS) modified EPA method 8015 for diesel, and for volatile aromatic hydrocarbons as Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) in accordance with EPA test method 8020. In addition, all of the soil samples were analyzed for total lead by EPA method 7420 as required by LAFD.

4.2 RESULTS OF ANALYSIS

The laboratory results of the soil samples collected beneath the former UST locations indicated that the soil beneath the USTs at the site was not significantly impacted by petroleum hydrocarbons. The laboratory results of the UST confirmation samples showed no concentrations above the detection limit or less than LAFD action limit of 100 milligrams per kilogram (mg/kg) of petroleum hydrocarbons. However, one soil sample collected beneath the western 500 gallon UST (Figure 2) showed elevated concentrations of TRPH. Subsequently, the LAFD referred the site to the Plan Check Unit, which supervises remediation at contaminated sites within their jurisdiction (see Section 5.0 Site Assessment).

During the excavation, the soil was separated into "clean" and "contaminated" spoils piles. Results of the laboratory testing for the soil samples collected from the spoils piles indicated that some of the stockpiled soil had been impacted with TRPH. The analytical test results are summarized in Table 1 through Table 3:

BOE-C6-0106801

TABLE 1 Soil Samples collected on July 7, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015	EPA 8020	EPA 7420	SAMPLE LOCATION
		DIESEL	BTEX	LEAD	
T 13 - 7'	7,900	-	ND	ND	Western 500 g Center
T 14 - 7'	37	•	ND	ND	Eastern 500 g Center
T 11/12 - 14'	50	-	ND	ND	Center 7,500 g USTs
T 11 - 14'	ND	_	ND	ND	Western 7,500 g West
T 12 - 14'	ND	-	ND	ND	East 7,500 g East
SP - 1	ND	-	ND	ND	South Spoils Pile West
SP - 2	2,100	-	ND	ND	South Spoils Pile Center
SP - 3	4,600	-	ND	ND	South Spoils Pile East
SP - 4	ND ND	ND	ND	ND	North Spoils Pile East
SP - 5	ND	ND	ND	ND	North Spoils Pile
SP - 6	ND .	ND	ND	ND	Western Spoils Pile
SP - 7	170	ND	ND	ND	Western Spoils Pile
SP - 8	360	ND	ND	ND	Western Spoils Pile
SP - 9	ND ND	ND	ND	ND	Southw. Spoils Pile East
SP - 10	260	ND	ND	ND	Southw. Spoils Pile Center
SP - 11	ND	ND	ND	ND	Southw. Spoils Pile West
T 20 A - 16'	ND ND	ND	ND	ND	Western 50,000 g South
T 20 B - 16'	ND ND	ND	ND	ND	Western 50,000 g Center
T 20 C - 16'	ND_	ND	ND	ND	Western 50,000 g North
T 19 A - 16'	ND	ND	ND	ND	Eastern 50,000 g South
T 19 B - 16'	35	ND	ND	ND	Eastern 50,000 g Center
T 19 C - 16'	52	ND	ND	ND	Eastern 50,000 g North
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND

= not detected above detection limit

ug/kg

= microgram per kilogram

= not analyzed

mg/kg = milligram per kilogram Samples shown with depth in feet below grade

TABLE 2 Soil Samples collected on July 14 and 20, 1994

SAMPLE ID	EPA 418.1 TRPH	EPA 8020 BTEX	EPA 7420 LEAD	SAMPLE LOCATION
HA 1 - 9'	700	ND	ND	Center of 500 g UST
HA 1 - 12'	520	ND	ND	Center of 500 g UST
HA 1 - 15'	240	ND	ND	Center of 500 g UST
HA 1 - 20'	ND	ND	ND	Center of 500 g UST
HA 2 - 5'	ND	ND	ND	West of 500 g UST
HA 2 - 10'	ND ND	ND	ND	West of 500 g UST
HA 2 - 15'	ND	ND	ND	West of 500 g UST
HA 3 - 5'	ND	ND	ND	South of 500 g UST
HA 3 - 10'	ND	ND	ND	South of 500 g UST
HA 3 - 15'	63	ND	ND	South of 500 g UST
HA 3 - 20'	ND	ND	ND	South of 500 g UST
HA 4 - 9'	60	ND	ND	East of 500 g UST
HA 4 - 12'	730	ND	ND	East of 500 g UST
HA 4 - 15'	32	ND	ND	East of 500 g UST
HA 4 - 20'	ND	ND	ND	East of 500 g UST
Detection Limit	10 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND = not detected above detection limit

mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
Samples shown with depth in feet below grade

BOE-C6-0106803

TABLE 3
Soil Samples collected on July 20, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015 DIESEL	EPA 8020 BTEX	SAMPLE LOCATION
SP - 12	ND	ND	•	Westwest Alley Pile
SP - 13	130	ND	ND	West Alley Pile
SP - 14	160	ND	ND	East Alley Pile
SP - 15	130	ND	ND	Easteast Alley Pile
SP - 16	330	ND	ND	1. Pile South
SP - 17	160	ND	ND	1. Pile North
SP - 18	550	ND	ND	2. Pile South
SP - 19	140	ND	ND	2. Pile North
SP - 20	84	ND	-	3. Pile South
SP - 21	120	ND	ND	3. Pile North
SP - 22	270	ND	ND	4. Pile South
SP - 23	160	ND	ND	4. Pile North
SP - 24	-	ND	ND	Roll Off Bin
SP - 25	48	-	-	East of SP1 (7500g)
SP - 26	260	-	ND	West of SP2 (7500g)
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	

Note: ND = not detected above detection limit

mg/kg = milligram per kilogram ug/kg = microgram per kilogram

- ≈ not analyzed

Samples shown with depth in feet below grade

5.0 SITE ASSESSMENT

In accordance with City of Los Angeles Fire Department, Plan Check Unit, (LAFD) requirements the following scope of work has been completed. Using a hand advanced auger, we completed a total of four borings in the area of the previously detected soil contamination.

The area of total recoverable petroleum hydrocarbon (TRPH) impacted soil was located beneath the former western 500 gallon UST location, previously containing hydraulic oil. According to LAFD requirements, the borings were placed approximately 5 ft outward and below the contamination. The extent of the plume was determined by placing the hand auger borings in three locations encircling the previously collected sample ID T13-7', and one boring was completed in the center. Figure 3 shows the location of the borings and Table 1 the tank confirmation sample results.

Maness completed the borings to 15 and 20 feet below grade (ft bg). Samples were recovered at approximately five foot intervals. Laboratory results for soil samples collected from the center and east of the UST to 12 ft bg (HA4) and 15 ft bg (HA1) showed concentrations of TRPH above the action limit of 100 mg/kg. Maness collected additional soil samples at 20 ft bg at location HA1 and 15 and 20 ft bg at location HA4. The test results determined that the impacted soil was localized between the bottom of the former UST location at 7 ft bg and 15 ft bg. East of the UST location the impacted soil did not extent beyond 12 ft bg. The soil samples collected west and south of the UST were none detected or less than the LAFD action limit. Table 2 summarizes the test results of the hand auger borings.

Due to the unstable condition of the sidewalls, Maness excavated approximately six cubic yards of TRPH impacted soil to a depth of 20 ft bg beneath the former UST location and stabilized the bottom of the excavation with pea gravel.

Maness personnel removed all of the TRPH impacted soil from the affected area. Subsequently, Douglas instructed Maness to complete a profile of the TRPH impacted spoils piles generated from the excavations. Maness collected and analyzed additional soil samples, to determine whether all of the separated soil was impacted. Figure 2 and Figure 4 show the locations of fifteen (15) soil samples collected from the spoils piles. Table 3 summarizes the results.

Upon approval by the LAFD Plan Check Unit, Maness backfilled and properly compacted the excavation to 95% at optimum moisture content. The backfill material consists of clean cohesive soil, free from organic materials and refuse. The certified compaction report is included in Appendix H.

6.0 CONCLUSIONS

McDonnell Douglas Corporation engaged Maness to perform an underground storage tank closure at the Douglas Aircraft facility at 19503 South Normandie Avenue in Torrance, California. According to all applicable state, county and City of Los Angeles guidelines, Maness removed two 50,000 gallon, two 7,500 gallon and two 500 gallon underground storage tanks, previously storing fuel and hydraulic oil, from the subject site.

The analytical results of soil samples collected beneath the former USTs indicate that the petroleum hydrocarbon impacted subsurface soil has been removed from the excavation. During the excavation, the contaminated soil was placed on separate spoils piles. Analysis of the soil samples collected from the separated piles showed total recoverable petroleum hydrocarbons above the LAFD clean-up criteria in several spoils piles. Upon profiling, a total of 542.49 tons of TRPH impacted soil was transported to TPS Technology, Inc. recycling facility in Adelanto, California. The non-hazardous waste data forms are included in Appendix I.

The tank removal operation was supervised by a California registered geologist. The excavation was backfilled with clean imported soil and certified compacted to 95%.

7.0 LIMITATIONS

Maness Environmental Services, Inc., performs professional services using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings are based primarily upon analytical results provided by an independent laboratory. Interpretations of the subsurface conditions at the site, for the purpose of this investigation, are made from a limited number of available data points (example: soil samples) and subsurface conditions may be different in other locations.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.

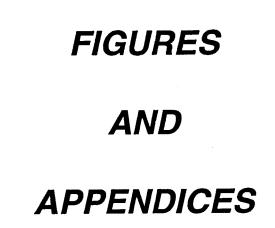
Gabriele E. Baader Project Geologist

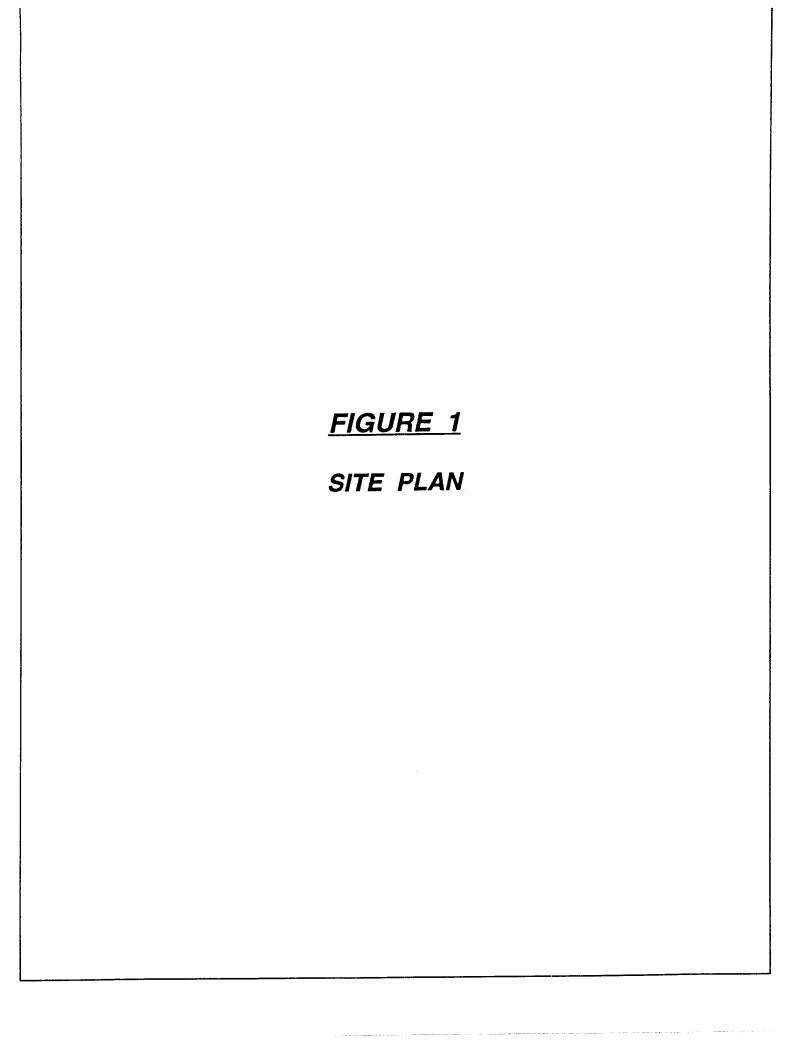
Gary Runnells, R.E.A., R.G.

Registered Geologist









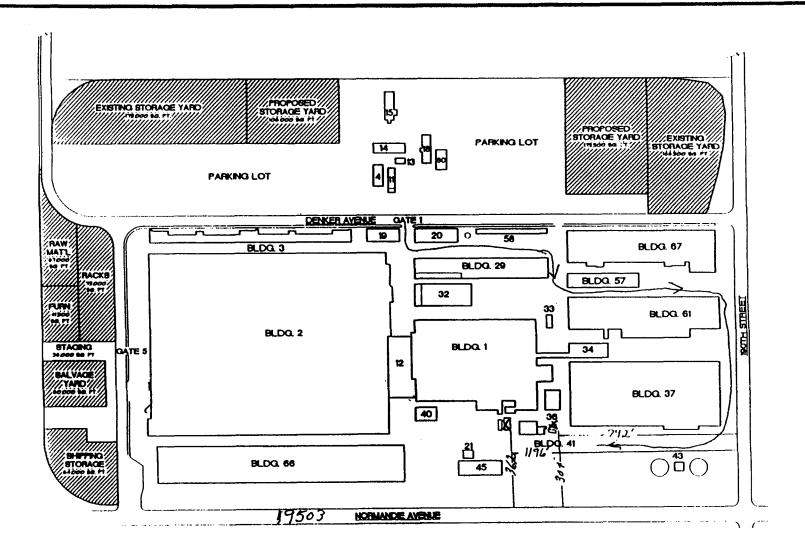


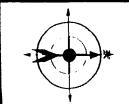
FIGURE 1
SITE PLAN

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502



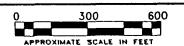
PROJECT #:

DATE:

40443

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7/29/1994



DRAWN BY:

G. BAADER

CHECKED BY: G. RUNNELLS

APPROVED BY: D. HERRERA

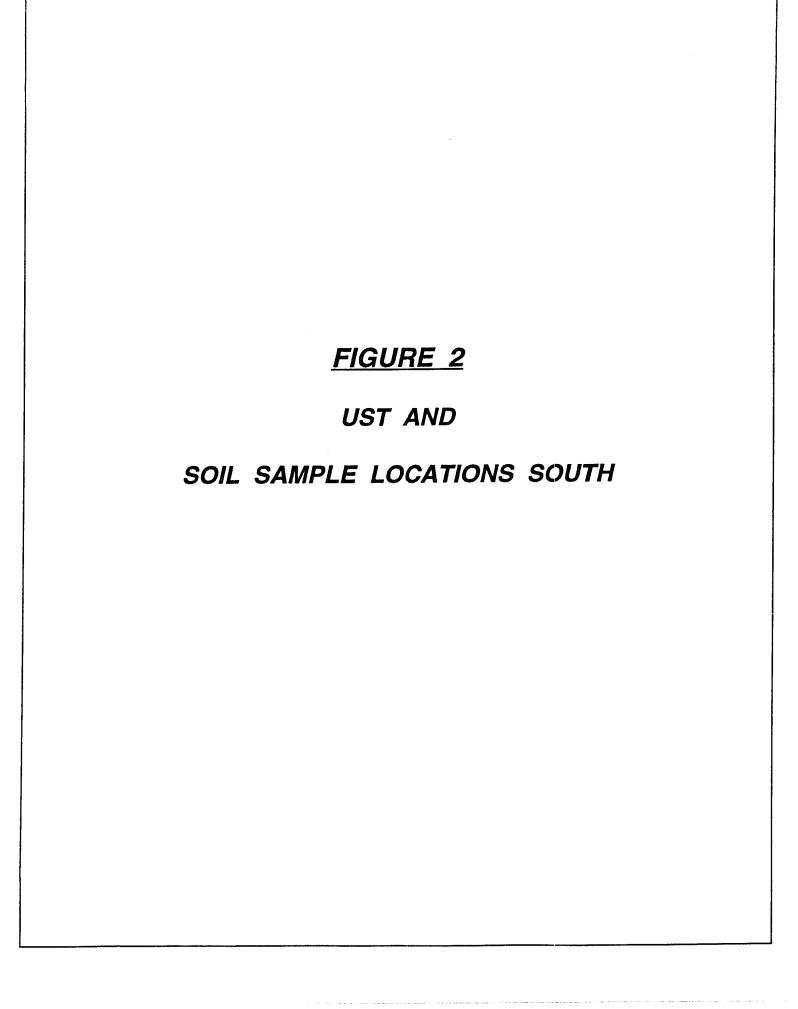


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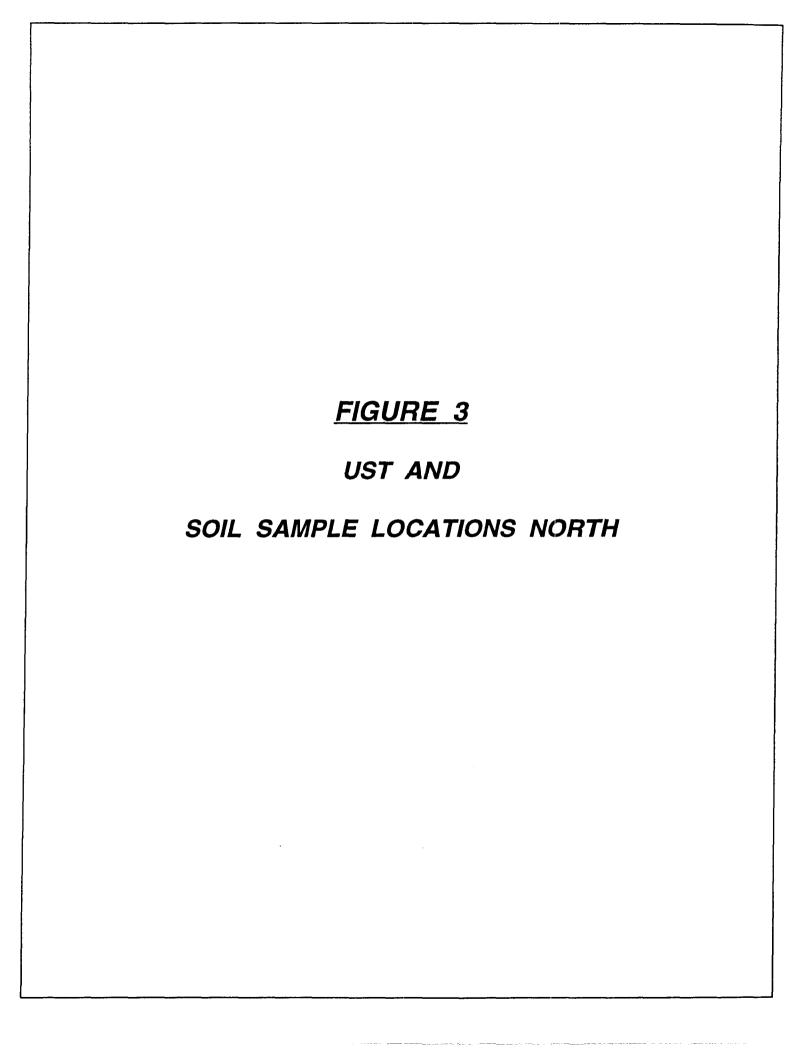
1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 492-6495



APPROXIMATE SCALE IN FEET

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BOE-C6-0106811



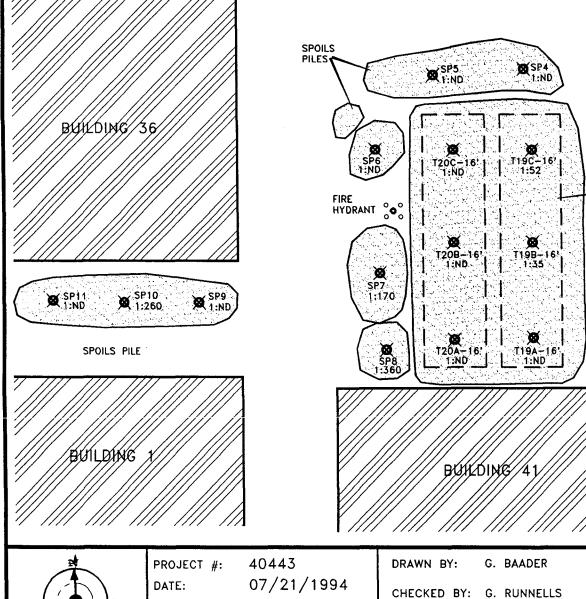


FIGURE 3

UST AND SOIL SAMPLE LOCATIONS NORTH

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

PREPARED FOR

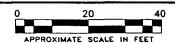
DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

LEGEND

SOIL SAMPLE LOCATIONS

1 418.1 TRPH RESULTS ND NONE DETECTED NO TPH (DIESEL), BTEX OR LEAD DETECTED ALL RESULTS IN MILLIGRAMS PER KILOGRAM

BOE-C6-0106813



APPROVED BY: D. HERRERA



FORMER LOCATION OF TWO 50,000 g

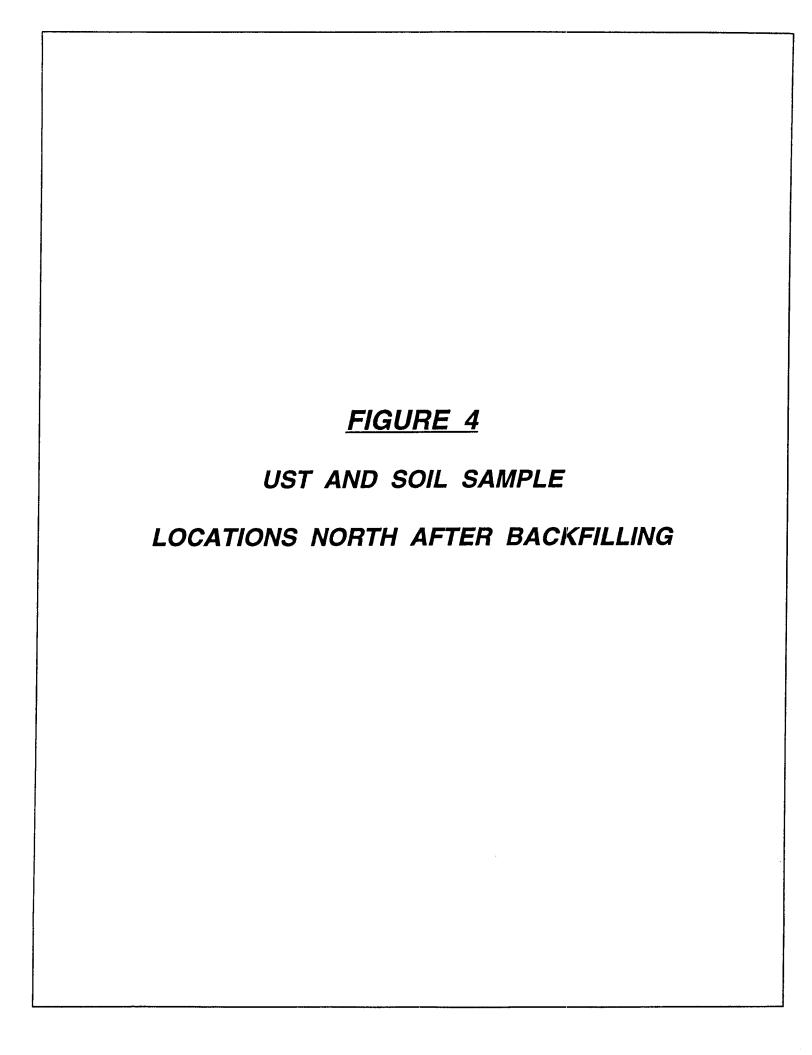
FUEL OIL USTs

MANESS

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APPROVED BY: D. HERRERA

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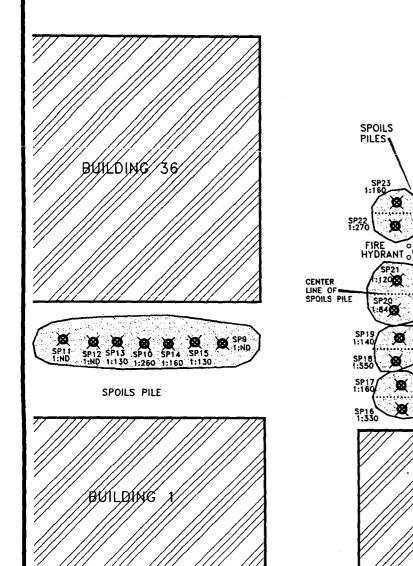


FIGURE 4

UST AND SOIL SAMPLE LOCATIONS NORTH AFTER BACKFILLING

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

LEGEND

SOIL SAMPLE LOCATIONS

1 418.1 TRPH RESULTS ND NONE DETECTED NO TPH (DIESEL), BTEX OR LEAD DETECTED ALL RESULTS IN MILLIGRAMS PER KILOGRAM

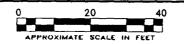


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DRAWN BY:

G. BAADER

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T20C-16

T208-16'

1.ND

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CHECKED BY: G. RUNNELLS

APPROVED BY: D. HERRERA



FORMER LOCATION OF TWO 50,000 g

FUEL OIL USTs

MANESS

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1101 E. SPRING ST., P.O. 80X 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 492-6495

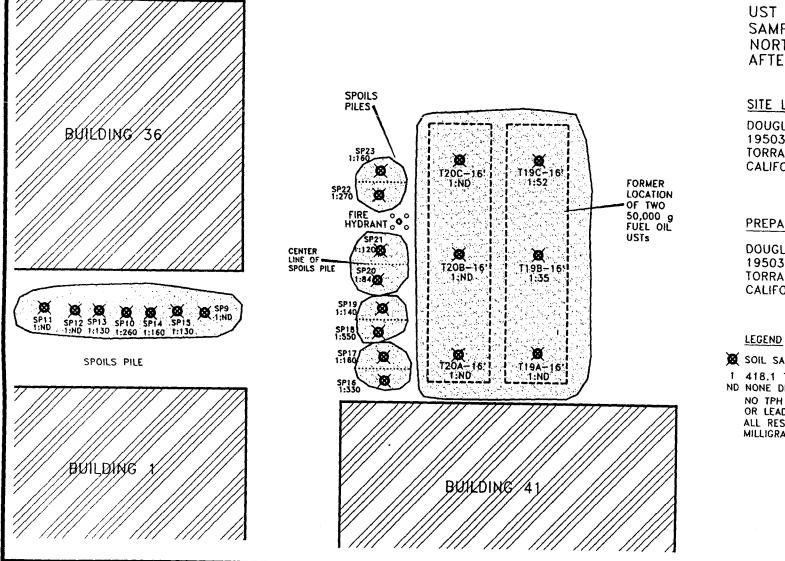


FIGURE 4

UST AND SOIL SAMPLE LOCATIONS NORTH AFTER BACKFILLING

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE TORRANCE CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY 19503 S. NORMANDIE AVE **TORRANCE** CALIFORNIA 90502

SOIL SAMPLE LOCATIONS

1 418.1 TRPH RESULTS ND NONE DETECTED NO TPH (DIESEL), BTEX OR LEAD DETECTED ALL RESULTS IN MILLIGRAMS PER KILOGRAM



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DATE:

07/21/1994

APPHOXIMATE SCALE IN FEET

DRAWN BY:

G. BAADER

CHECKED BY: G. RUNNELLS

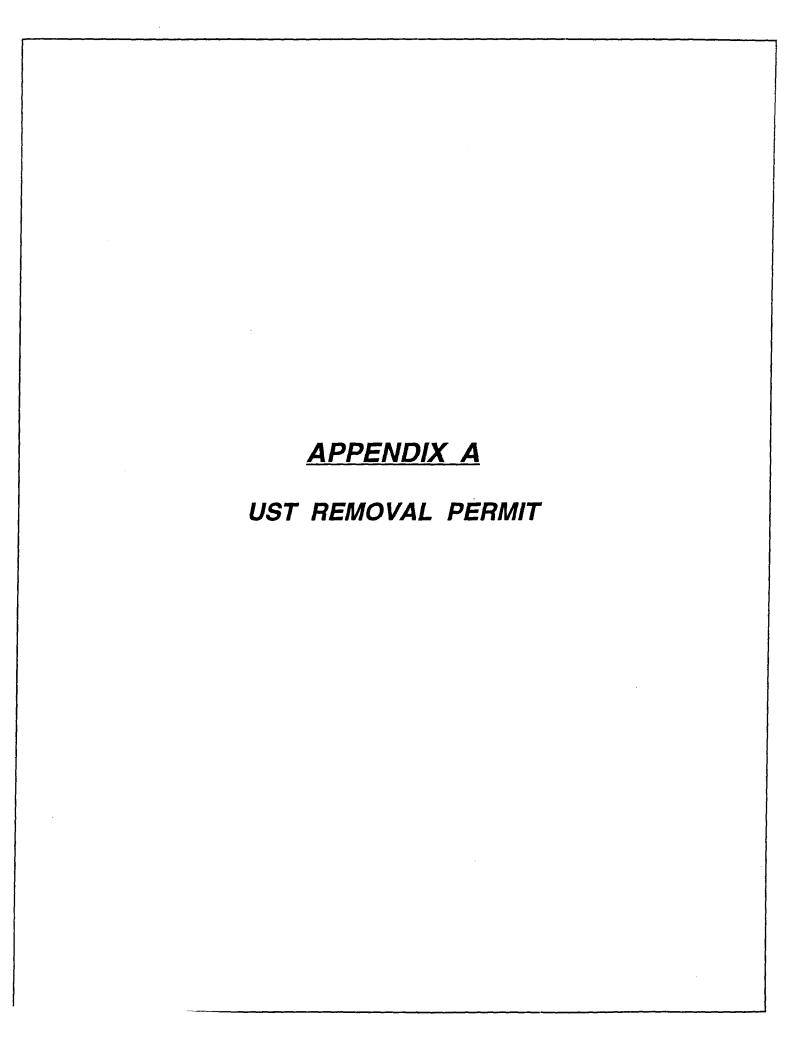
APPROVED BY: D. HERRERA



MANESS ENVIRONMENTAL SERVICES INC.

> A DIVISION OF MANESS INDUSTRIES

1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939 CONTRACTOR LICENSE NO. 553635, IEL (310) 595-4555, FAX (310) 492-6495



FIRE DEPARTMENT - CITY OF LOS ANGELES

Dato

6/4/011

APPLICATION FOR PERMIT - ATMOSPHERIC UNDERGROUNDTANK

Permit No. 3757

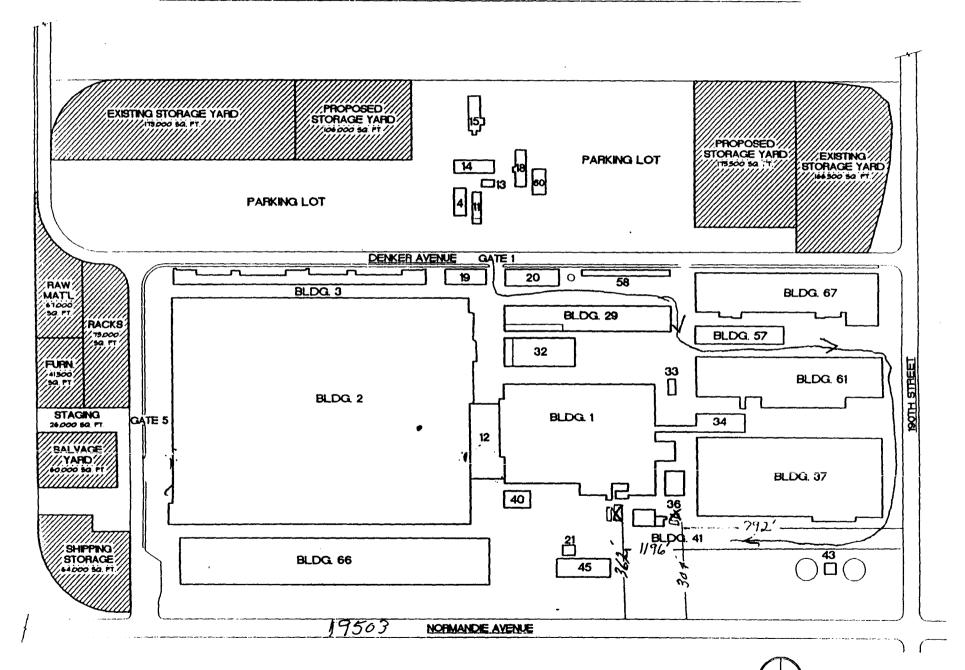
Date of Application 6/8/94

PLEASE PRINT OR T	PE			<u> </u>		
Name of Owner of Pro		Doing Busines				
DOUGLAS AIRCRAFT (310-593- 5511	Douglas	AIRCRAFT CO.			
Address of Owner	Ci	ty	Stato	Zip	Owner's Phone	
3855 Lakewood Blu	d Lo	ng Beach	ca.	90846	310 593 3902	
Address of Site	Ci	ity	Stato	Zip	Phone at Site	
19503 S. Normandi	e Ave To	rrance	CA.	90502	310 533 7926	
Contractor's Company MANESS ENVIRONME	Namo NTAL SERVICES		ana un en			
Address 1101 E. Sp	ring St C	ity Long Beach	State	CA. 90807 Zip	Contact	
Signature of Applicant		Title		Contractor's Phone		
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	D					
QTY.	ITEM		I.D. NO(S)			
4	4 UGT/S ABANDONMENTBY REMOVAL		EPA# CAD 086 510 005			
	UGT/S TANK ENTRY/LINING/REPAIR		State Contractor Type/# A B Haz 553633			
	JGT/S ABANDONMEN	TIN PLACE	City Business#	704659-95		
	JGT/S INSTALLATION				i	
	JGT/S ADD TO/ALTER	:MONITORING				
	UGT/S ADD TO/ALTER	R:PIPING/DISPENSE	R			

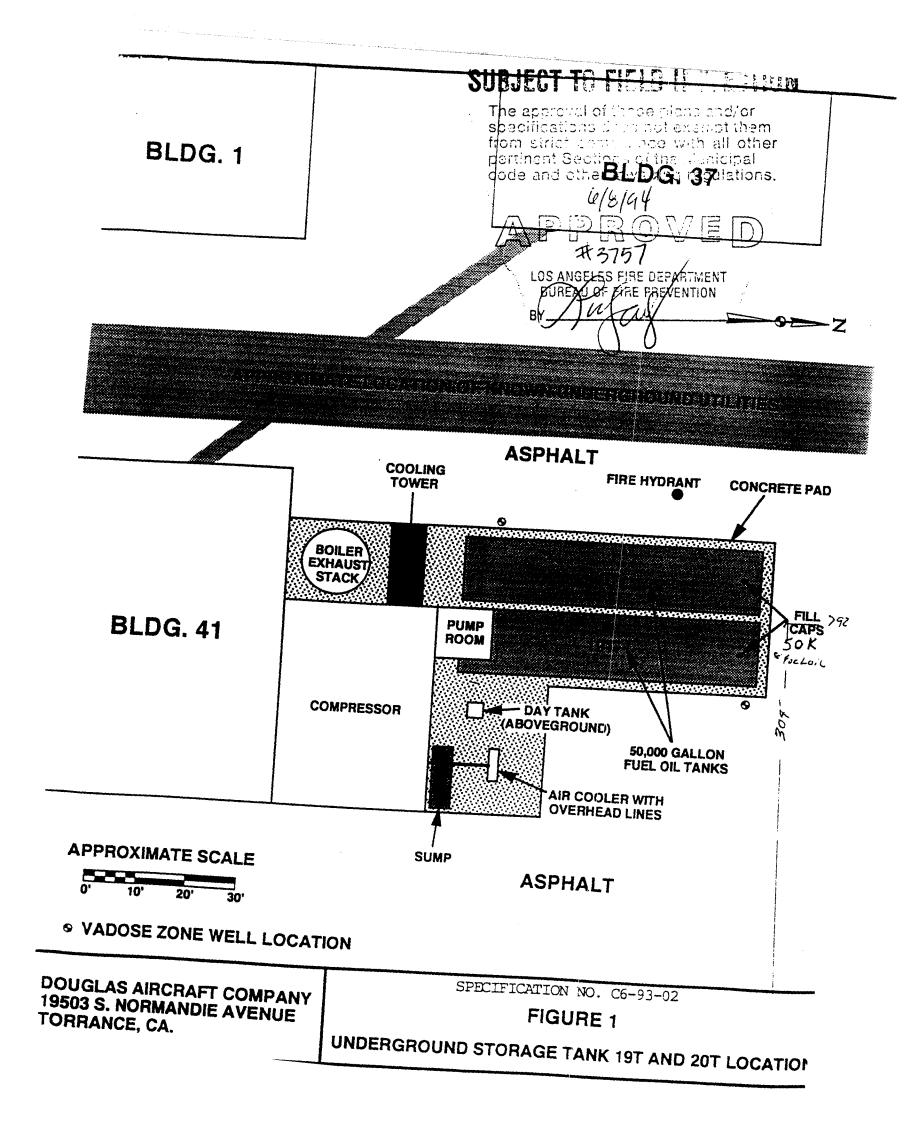
Inspector

Date

SALVAGE YARD R/A - TORRANCE (C6) FACILITY

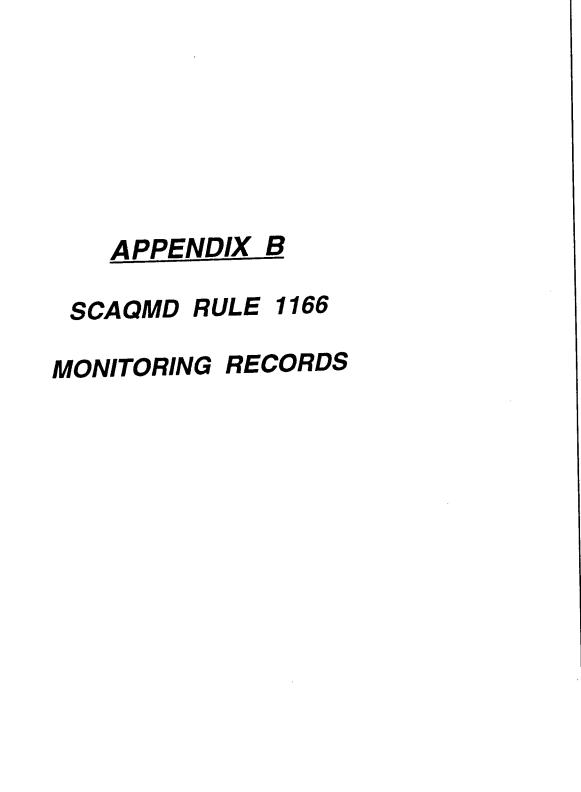


BOE-C6-0106820



BLDG. 1 SUBJECT TO FIELD INSPECTION The approvel of these plans and/or specifications does not exempt them. from strict compliance with all other pertinent Sections of the Municipal code and other laws and regulations. 6/6/94 CONCRETE PAD LOS ANGELES FIRE DEPARTMENT **PUMPS** FIRE PREVENTION BLDG. VENTS 40 COOLANT RECOVERY **TANK 11T-12T** SYSTEM - 1196 ANK 13T-14T APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES CONCRETE RAMP **ASPHALT** APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES APPROXIMATE SCALE 9 VADOSE ZONE WELL LOCATION DOUGLAS AIRCRAFT COMPANY SPECIFICATION NO. C6-93-01 19503 S. NORMANDIE AVENUE TORRANCE, CA. FIGURE 1

UNDERGROUND STORAGE TANK 11T-14T LOCATION





South Coast AIR QUALITY MANAGEMENT DISTRICT

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

November 1, 1991

Maness Environmental Services Inc P. O. Box 7917 Long Beach, CA 90807-0917

Attention: David Herrera

(213) 595-4555 APPLICATION NO. 257250 COMPANY ID 69389

RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your Application (A/N 257250) received on October 22, 1991, for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

Your excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions.

PLAN CONDITIONS:

PROPERTY OWNER'S INITIALS

1. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS WHICH HAVE STORED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER SHALL BE NOTIFIED OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(A) AND THE NAME OF THE COMPANY PERFORMING THE EXCAVATION.

[]GH]

IF VOC-CONTAMINATED SOIL IS DETECTED, THE EXECUTIVE OFFICER SHALL BE NOTIFIED AGAIN WITHIN 24 HOURS. BOTH NOTIFICATIONS SHALL BE MADE BY CALLING (818) 572-6195, MONDAY THROUGH FRIDAY, BETWEEN 8 A.M. AND 5 P.M.

2. THIS PLAN IS VALID ONLY FOR THE EXCAVATION AND HANDLING OF A MAXIMUM OF 2000 CUBIC YARDS OF VOCCONTAMINATED SOIL AT EACH SITE. EXCAVATION OF A GREATER AMOUNT REQUIRES SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

(19/)

Maness Environmental Services Inc November 1, 1991 257250

VCC-CONTAMINATED SOIL SHALL BE DISPOSED, ALL BACKFILLED, OR REMOVED FROM THE SITE WITHIN 40 DAYS AFTER IT HAS BEEN EXCAVATED FROM THE AFFECTED AREAS.

RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE OWNER OR OPERATOR SHALL PREPARE A WRITTEN PLAN [WHICH INCLUDES METHODS TO TREAT THE VOC-CONTAMINATED SOIL, SCHEDULES TO HAUL THE SOIL AWAY, BACKFILL THE SOIL, OR OTHER MEANS OF DISPOSAL. THE PLAN SHALL ALSO INDICATE THAT THE NECESSARY PERMITS HAVE BEEN OBTAINED OR ARE IN THE PROCESS OF BEING OBTAINED. SUCH A PLAN SHALL BE PREPARED NO LATER THAN 5 DAYS AFTER THE COMPLETION OF THE EXCAVATION, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE EXCAVATION SHALL BE CONDUCTED IN 50 FT. X 50 FT. 5. OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL POTENTIALLY CONTAMINATED WITH VOC.

THE EXCAVATION OPERATOR SHALL HAVE ON SITE AN ORGANIC 6. VAPOR ANALYZER (OVA) USING FLAME IONIZATION OR PHOTO IONIZATION OR OTHER ANALYTICAL METHODS COMPLYING WITH 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3.1.1.a., "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS".

THE OVA SHALL BE CAPABLE OF BEING CALIBRATED USING 7. HEXANE AT A RANGE OF O PARTS PER MILLION BY VOLUME (PPMV) TO 50 PPMV AND AT A DETECTION RANGE OF AT LEAST 30 PPMV TO 1100 PPMV. THE OVA SHALL BE INITIALLY CALIBRATED USING HEXANE BY THE MANUFACTURER AND CALIBRATED AT LEAST ONCE AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER.

DURING EXCAVATION, MONITORING SHALL BE CONDUCTED TO 8. MEASURE VOC'S AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE FRESHLY DUG SOIL BY USING AN ORGANIC VAPOR ANALYZER (OVA) DESCRIBED UNDER CONDITION 7. THIS MEASUREMENT SHALL BE MADE FOR EVERY LOAD OF SOIL AND SHALL BE TAKEN NO LONGER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.

WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. A TYPICAL FORMAT IS ATTACHED WITH THIS PLAN.

VOC-CONTAMINATED SOIL IS A SOIL WHICH REGISTERS 50 10. PPMV OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED USING HEXANE) AT A DISTANCE OF NO MORE THAN THREE INCHES ABOVE EXCAVATED AND EXPOSED SOIL.

. November 1, 1991

257250

11. IF THE OVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000 [75] PPMV,

- A) THE WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER, OR COVERED WITH CLEAN SOIL OR TREATED WITH A DISTRICT APPROVED SUPPRESSANT, AND
- B) EACH VOC-CONTAMINATED LOAD OF SOIL SHALL BE SPRAYED WITH WATER OR TREATED WITH A DISTRICT APPROVED VAPOR SUPPRESSANT AND BE STOCKPILED SEPARATELY.
- IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPMV,

- A) THE WORKING AREA SHALL BE SPRAYED WITH WATER OR DISTRICT APPROVED VAPOR SUPPRESSANTS OR COVERED WITH AT LEAST 4 INCHES OF CLEAN SOIL, AND
- B) THE SOIL DUG UNDER THE ABOVE CONDITIONS SHALL BE STORED IN DISTRICT APPROVED CONTAINERS, AND
- C) IN LIEU OF CONTAINERS, OTHER MITIGATION MEASURES MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL OF THE EXECUTIVE OFFICER, IF THE OWNER OR OPERATOR CAN DEMONSTRATE THAT AN ALTERNATIVE MEASURE IS EQUALLY OR MORE EFFECTIVE IN REDUCING VOC EMISSIONS. PRIOR TO THE EXECUTIVE OFFICER'S APPROVAL, THE OWNER OR OPERATOR SHALL SUBMIT A COMPREHENSIVE WRITTEN STUDY WHICH COMPARES QUANTITATIVELY THE ESTIMATED VOC EMISSIONS DIFFERENCE BETWEEN THE ALTERNATIVE MITIGATION MEASURES.
- ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED 13. SEPARATELY FROM NON VOC-CONTAMINATED SOIL AND KEPT MOIST, COVERED OR SPRAYED WITH WATER OR WITH A FUME SUPPRESSANT TO PREVENT EMISSIONS OF PARTICULATES OR VOC.

AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL 14. BE COVERED WITH A HEAVY DUTY CONTINUOUS PLASTIC SHEET(S), JOINED AT THE SEAMS, AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

- 15. A STOCKPILE SHALL NOT CONTAIN MORE THAN 450 CUBIC YARDS OF SOIL.
- 16. WITHIN 5 DAYS AFTER THE EXCAVATION IS COMPLETED AT EACH SITE, THE WRITTEN RECORDS UNDER CONDITIONS 4 AND 9 SHALL BE SUBMITTED TO THE DISTRICT AT THE FOLLOWING ADDRESS.

SCAQMD ENFORCEMENT DIV. 9150 FLAIR DR. EL MONTE CA. 91731

Maness Environmental Services Inc November 1, 1991 257250

- 4 -

17. VOC-CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE TO CAUSE THE EVAPORATION OF UNCONTROLLED VOC TO THE ATMOSPHERE.

18. THIS PLAN IS NOT VALID FOR EXCAVATING VOC-CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

[<u>Jen</u>]

19. THIS PLAN DOES NOT ALLOW ANY TREATMENT OF VOC-CONTAMINATED SOIL.



20. A COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE DURING ALL SOIL HANDLING AND STORAGE PROCESSES.



21. THIS PLAN IS NOT VALID UNTIL THE VERIFICATION BELOW IS SIGNED.



LOCATED AT _____, AM THE OWNER OF THE PROPERTY (SITE OF THE EXCAVATION). I VERIFY THAT I HAVE READ, UNDERSTOOD, AND INITIALED EACH CONDITION OF THIS PLAN.

SIGNED

DATE

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this plan, please call Mr. Arthur Lawler at (818)572-6406.

very truly yours,

George Rhett

Supervising A. Q. Engineer

AL R1166VXE

cc: Rudy Eden, Enforcement, Data Management Branch

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1166 SOIL MONITORING RECORDS

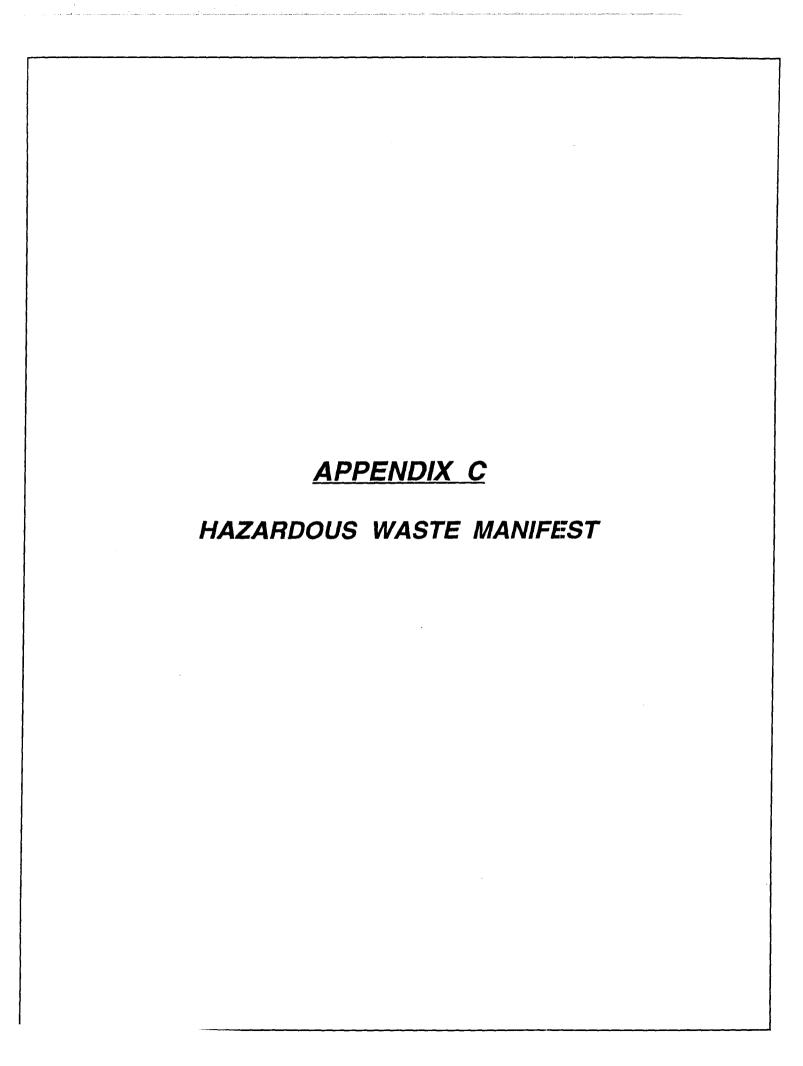
DWNER: CUSICS AIRCRY			MONITORING INFORMATION			
			COMPANY: MANESS EXY			
			OF PERSON: ZANFARRING			
TY: \(\sigma\)O(V4~~	MONIT	OR MFG:			
CP CODE:		MODEL	NO:			
ATE OF EXC	AVATION: 7-14	CALIE	RATION GAS			
TIME	VOC CONCENTRA	ATION (ppmV)	COMMENTS			
	EACH LOAD AS REMOVED	STOCKPILE SURFACE				
16-30	·	ф				
1045		4	·			
1100		-&				
Levein		-				
1200		4				
1215		0				
1230		~				
100		→				
130						
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SIGNATURE			DATE: 7-194			

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1166 EXCAVATION PLAN SOIL MONITORING RECORD

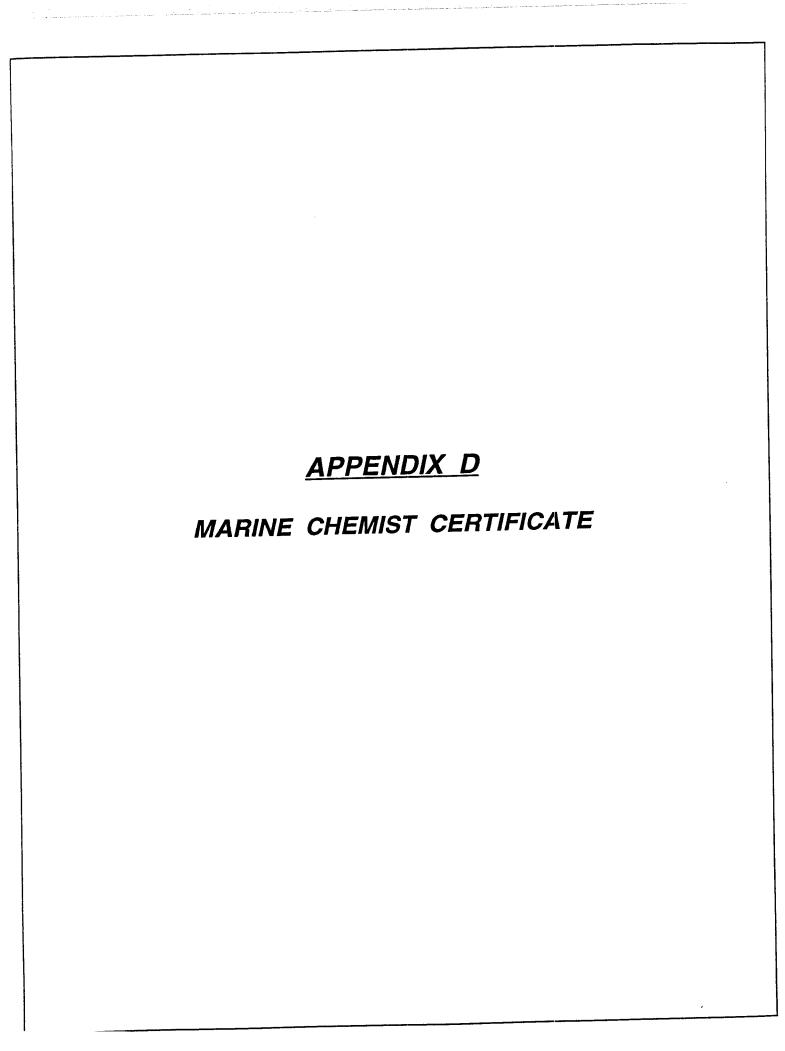
 $A \setminus N$

Dauglas Aircraft Normandie Touvance	Maness Environmental Mike Miller
7/5/94	

IELD PERSONNEL:		VOLATILE ORGANIC COMPOUNDS IN PARTS PER MILLION	
TIME	STOCKPILE/ PPM SURFACE	OVER WORKING SURFACE	
30 0	PPM		
:45 0	ppm		
0:00	PPM		
0.6 0	PPM		
10:30	MAG		
10:45 0	PPM		
11:00	PPM		
11:15 LU	NCH.		
	EAK		
11:45	PPM		
12:00	PPM-end of	escavation	
12:15		··	
12:30			
12:45			
13:06			
			
			
	~ /		
	1 41/		



7	phoed OMS No. \$050-0039 (Expire) 9-30-94) to or type. Fogin designed for use on siles (12-pitch) typewriter.	US EPA ID No.	Manifest Documen		2. Page 1	Department of Taxle Substate Socramente, Califer Information in the shaded or
	UNIFORM HAZARDOUS WASTE MANIFEST CADO	86510000			of 1	is not required by Federal k
	19503 South Normandie Avenue, Torrano 4. Generator's Phone (\$10 535-7926	or (310	B C6-69 1) 633-7231			
	Laldlaw Environmental Services of CA	, Ind. US EPA ID Number CADIOIOIO	8 3 1 2 1			
	7. Transparier 2 Company Name	5. US EFA ID Number				
	9. Designated Facility Name and She Address Chern-Tech Systems, Inc. 3650 East 28th Street	10. US EFA ID Number	33881			e de la companya de l
	Los Angeles, CA 90022 11. US DOT Description (including Proper Shipping Name, Haze		12. Con	tainers. Type	1:8. Total Cluantity	14. Unit Wt/Val
•	(Rinse, water from diesel tank) has Non-ACRA hazardous waste liqu	als and relativistic of	ot/ : 00,1	TT	3360	P.
	b. CERTIFICATE OF TREATMENT/RECYCLIN					
· ·	CHEM-TECH SYSTEMS. INC. certifies that with this manifest will be treated to stan FEDERAL CLEAN WATER ACT and the Los A Districts' efficient requirements. Treatment/rec	dards mandated by the Ingeles County Sanitation				.55.55
,	d. Control, Environmental Protection Agency, Pro- Conservation and Recovery Act (RCRA) of 197 and ctate regulations. The generator's responsi	(át-of-Toxio-Substances- rovisions of the Resource 76, and applicable federal			 	
	1 (a) Rinse water from deceitants / 5. Tanks 15. Special Honding Instructor of Lands (daments)		CHAI	o m		
ļ	24 Hour emergency to EMERA DUMAN	IAGEN 424- 9300	(Chemtrec).	DOT E	FIG# 11a)	31
٠	16. GENERATOR'S CERTIFICATION: I hereby declare that the packed, marked, and labeled, and are in all respects in pro-	e contents of the consignment a	re fully and accurate	ly described	obove by proper	shipping name and are class
	If I am a large quantity generator, I certify that I have a sconomically practicable and that I have selected the practice threat to human health and the environment, OR, If I am	s program in place to reduce clicable method of treatment, s a small quantity generator, i i	the volume and taxio	city of waste urrently avail	(penerated to the	degree I have determined minimizes the present and i
۲.	waste management method that is available to me and that Printed/Typed Name Robert G. Tuell, Jr.	Signature	+ 3 9	all	<u>Q.</u>	Month Day 0 15
	17. Transporter 1 Actnowledgement of Receipt of Materials Printed/Typed Now	Signatur	am	1	المترا	707103
	18. Transporter 2 Acknowledgement of Receipt of Materials ' Printed/Typed Name	Signature	100		,	Marth Day
;	19. Discrepancy Indication Space					<u>.</u> .
•	20. Facility Owner or Operator Certification of receipt of haza Printed/Typed Name A C L Y	signature	mention artificia	or of the Item	19.	Morath Day 017 015



D. Carlo C. Annan Jan	JOB #		
nomas D. Beck & Assoc., Inc. ba HARBOR TESTING LABORAT	ORY 47443	MARINE CH	IEMIST CERTIFICATI
HOUR PHONE: (310) 492-9646	, _		Serial # 6717
MANESS ENV ·	DO 46 LAS 17		6 Jaly 99
SEE BEAW	Vessel Owner or Ag UNNEAGROUMD		19503 S. NOR4/17NO/2
SSOI DIESEL	Type of Vessel	XI BT.	Specific Location of Vessei
st Cargo	Tests Performed		Time Survey Completed
)	
6 UNDERBROUND TAT	VKS (TESTEL	olo lel
MIRKED WITH YELL	OW		20-8% OXX/62/
SPRAY PAINT:			
William .		SAFE FO	A HOT WORK
		NOT SATT	POD WORKERS
6717.1; 6717.2;	6717.3	TO ANTOR	NOT TESTED
1717	(7/7/	10 400	100 (100 ())
6/17.4, 6/11.3	16111.6	100 SPECIFI	CINCS.
		TANUS IMPRIE	HEN CLEANED!
		1/1/10/0) (1/10/6)	MOUN OVERINEN!
MS4 MICROBARD C	MIRANTAN O	nana lhat	nivat
MY MICHOURE	MUDRA(M)	UOUO MES L	JULYTI
	OTA	NDARD CAFETY DECICALA	TIONS assigned to any of the above

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating colls, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

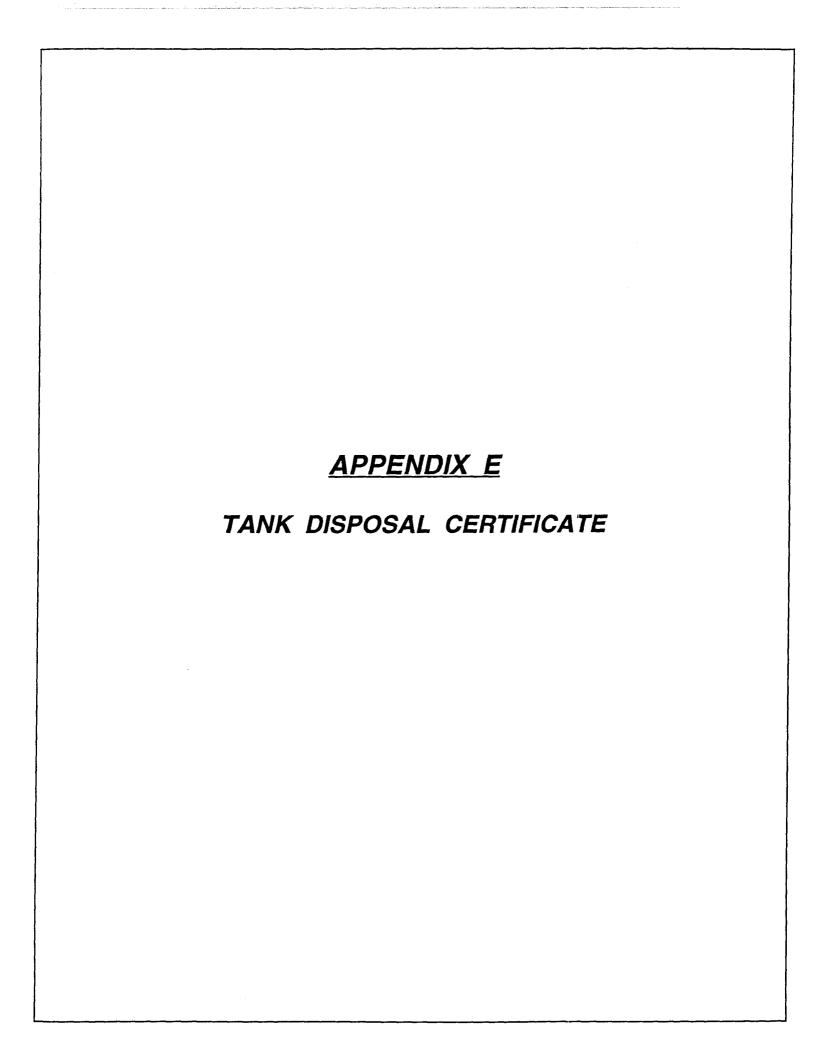
ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of fiammable materials in the atmosphere is below 10 percent of the lower fiammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained fiammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or tube oil tanks, or engine room or fire room biliges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK. Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of inderstands conditions and limitations under which it was issued."	NFPA 308 and	This Certificate is bas	ed on conditions existing at the	time the inspection ?	herein set forth was o	ompleted (
Mil Milla Mayer		Signed	Mornin	Bul	594	
	· / (Q. /_L.	Signed .			Centificate N	No.





July 12, 1994

Maness Environmental ATTN: Scott Hultner 1101 E. Spring Street Long Beach, CA 90807-0917

Dear Scott,

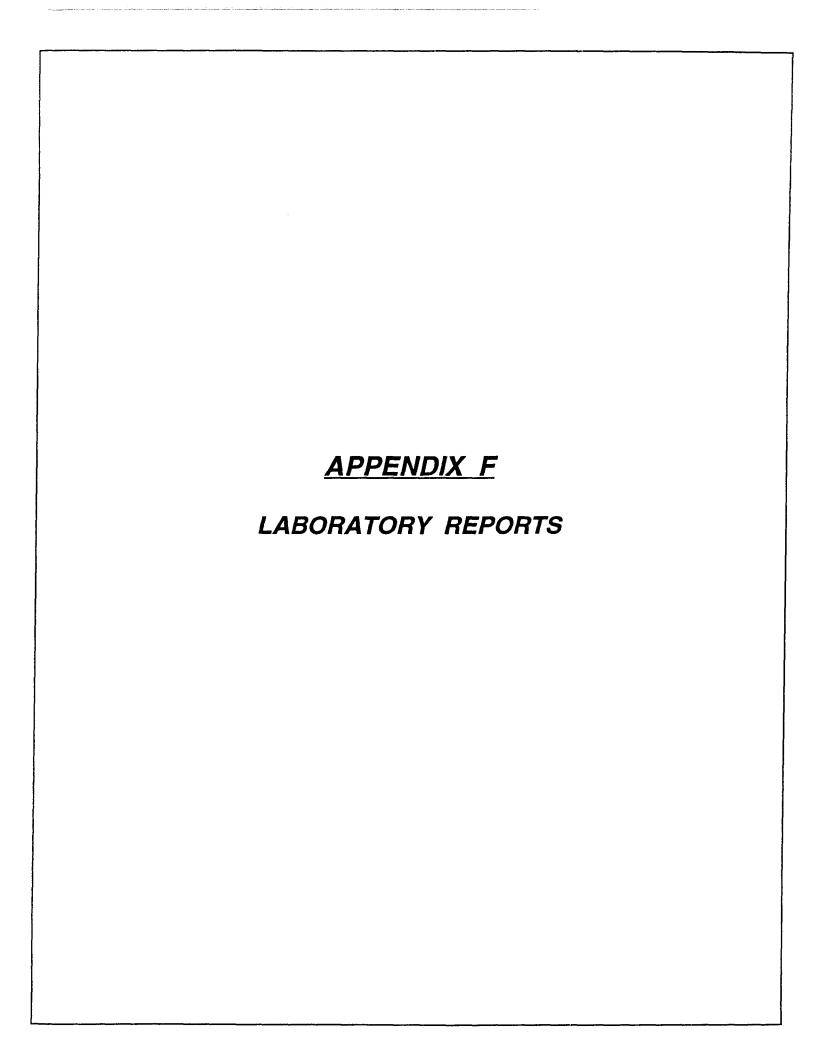
SUBJECT: TANK DESTRUCTION CERTIFICATE

This letter is to certify that tank numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6 in accordance with Marine Chemist Certificates, Serial Numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6. Tanks received from McDonnel Douglas, Torrance, California.

Tanks were torched and cut into scrap classification of #1 prepared scrap, the entire tanks were cut into pieces no longer than (5) five feet or wider than 1 1/2 feet in size, therefore rendering this tank into scrap steel and sold as such.

Burner(s)): <u>Davi</u>	d Martinez	Claine R. Bull Authorized Signature	24
	Luis	Vasquez	- Authorized Signature	0
	<u>Rafa</u>	el Vasquez	<u>July 12, 1994</u> Date	
Customer	Name :	Maness Envir	onmental	
Customer	P.O.#:	_Verbal - Sco	tt Hultner	

Not Valid without the corporate seal and signature



TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/08/94 JEL Ref. No.: 1675 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
Project:	Douglas Aircraft	Date Received: 07/07/94 Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Comple ID	Concentration	Reporting Limits
Sample ID	(mg/Kg)	(rng/Kg)
T13-7	7900	10.
T14-7	37	10.
T11/12-14	50	10.
T11-14	ND	10.
T12-14	ND	10.
SP-1	ND	10.
SP-2	2100	10.
SP-3	4600	10.
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	170	10.
SP-8	360	10.
SP-9	ND	10.
SP-10	260	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	35	10.
T19C-16	52	10.
ND = N	lot Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address: Maness Environmental

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94 JEL Ref. No.: 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Project: **Project Address:** Douglas Aircraft Torrance, CA

Date Analyzed: 07/07/94 Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	110%	111%	1.5%	65-125%
Sample Spiked:	T19C-16	111/0	1.570	00 12070
Sample Spiked.		Man		A 4-1-1-
Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	103%	108%	4.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/08/94 JEL Ref. No.: 1675 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94 Date Received: 07/07/94
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Analyzed: 07/07/94 Physical State: Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	ND	10.
SP-8	ND	10.
SP-9	ND	10.
SP-10	ND	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	ND	10.
T19C-16	ND	10.
NID -	Not Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date: 07/08/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1675
	Long Beach, CA 90807	Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil
		·

***************************************	EPA 8020	- Volatile Aro	matic Hydroca	rbons	
	Con	centration			Reporting
	(ug/Kg)			Limits
Sample ID	Benzene	Toluene	Ethylbenzen	e Xylenes	s (ug/Kg)
T13-7	ND	ND	ND	ND	5.0
T14-7	ND	ND	ND	ND	5.0
T11/12-14	ND	ND	ND	ND	5.0
T11-14	ND	ND	ND	ND	5.0
T12-14	ND	ND	ND	ND	5.0
SP-1	ND	ND	ND	ND	5.0
SP-2	ND	ND	ND	ND	5.0
SP-3	ND	ND	ND	ND	5.0
SP-4	ND	ND	ND	ND	5.0
SP-5	ND	ND	ND	ND	5.0
SP-6	ND	ND	ND	ND	5.0
SP-7	ND	ND	ND	ND	5.0
SP-8	ND	ND	ND	ND	5.0
SP-9	ND	ND	ND	ND	5.0
SP-10	ND	ND	ND	ND	5.0
SP-11	ND	ND	ND	ND	5.0
T20A-16	ND	ND	ND	ND	5.0
T20B-16	ND	ND	ND	ND	5.0
T20C-16	ND	ND	ND	ND	5.0
T19A-16	ND	ND	ND	ND	5.0
T19B-16	ND	ND	ND	ND	5.0
T19C-16	ND	ND	ND	ND	5.0

TESTING LABORATORIES

LABORATORY RESULTS

Client:
Client Address:

Maness Environmental

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94 **JEL Ref. No.:** 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94
Date Received: 07/07/94

Project:

Douglas Aircraft

Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Toluene o-Xylene	101% 100%	105% 105%	3.2% 4.3%	65-125% 65-125%
Sample Spiked:	T19C-16			
Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Toluene o-Xylene	102% 102%	103% 102%	0.7% 0.1%	65-125% 65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94 **JEL Ref. No.:** 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Project:

Douglas Aircraft

Date Received: 07/07/94 Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Physical State: Soil

22 soil samples were received sealed, chilled, and intact.

22 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

14 soil samples were analyzed for semi-volatile hydrocarbons by modified 8015 as diesel.

Approval:

Steve Jones, Ph. D.

Laboratory Manager

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/13/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1579
	Fullerton, CA 92635	Client Ref. No.:	Maness Environmental
Attn:	Steve Jones	Date Sampled:	07/07/94
		Date Received:	07/08/94
Project:	Douglas Aircraft	Date Extracted:	07/08/94
Project Address:	19503 S. Normandie	Date Analyzed:	07/12/94
•	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T11/12-14	ND	10
T11-14	ND	10
T12-14	ND	10
SP-1	ND	10
SP-2	ND	10
SP-3	ND	10
SP-4	ND	10
SP-5	ND	10
SP-6	ND	10
SP-7	ND	10
SP-8	ND	10
SP-9	ND	10
SP-10	ND	10
SP-11	ND	10
T20-A16	ND	10
T20-B16	ND	10
T20-C16	ND	10
T19-A16	ND	10
T19-B16	ND	10
T19-C16	ND	10

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/14/94 1600 Maness
Attn:	Steve Jones	Date Sampled: Date Received:	07/07/92 07/12/94
		Date Extracted:	07/13/94
Project:	Douglas Aircraft	Date Analyzed:	07/13/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T13-7	ND	10
T14-7	ND	10

QUALITY CONTROL INFORMATION

Client:

Client Address:

Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/13/94

07/07/94

07/08/94

07/08/94

FEL Ref. No.:

1579

Client Ref. No.:

Maness Environmental

Attn:

Steve Jones

Project: Project Address: Douglas Aircraft 19503 S. Normandie

Torrance, CA

Date Sampled:

Date Received:

Date Extracted: Date Analyzed:

07/12/94 Soil

Physical State:

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

102

Sample Spiked: FEL 1579-18

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	101	100	0.79	80 - 120	20

LMB = Laboratory Method Blank = Laboratory Control Sample LCS

ND = Not Detected

MS = Matrix Spike

= Matrix Spike Duplicate MSD RPD = Relative Percent Difference

QUALITY CONTROL INFORMATION

Client:
Client Address:

Jones Environmental P. O. Box 5387 Fullerton, CA 92635 Report Date: FEL Ref. No.: Client Ref. No.: 07/14/94 1600 Maness

Attn:

Steve Jones

Date Sampled: Date Received: 07/07/92

Date Received:
Date Extracted:

07/12/94 07/13/94

Douglas Aircraft

Date Analyzed:

07/13/94

Project:
Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

104

Sample Spiked: FEL 1600-1

Parameter	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	103	101	2.1	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

Fullerton

Environmental

aboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/13/94

FEL Ref. No.:

1579

Client Ref. No.:

Maness Environmental

Attn:

Steve Jones

Project:

Douglas Aircraft

19503 S. Normandie **Project Address:** Torrance, CA

Date Sampled:

07/07/94

Date Received: Date Analyzed:

07/08/94 07/12/94

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

Fullerton

Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Report Date: FEL Ref. No.: 07/14/94

Client Address:

P. O. Box 5387 Fullerton, CA 92635

Client Ref. No.:

1600 Maness

Attn:

Steve Jones

Date Sampled:

07/07/92

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/12/94

Project Address:

Torrance, CA

Physical State:

07/13/94

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

TESTING LABORATORIES

LABORATORY RESULTS

Client: **Report Date:** 07/15/94 Maness Environmental JEL Ref. No.: 1681 Client Address: 1101 E. Spring Street Long Beach, CA 90807 Maness Ref. No.: Contact: Scott Hultner **Date Sampled:** 07/14/94 Date Received: 07/14/94 Project: Douglas Aircraft Date Analyzed: 07/14/94 **Project Address:** Physical State: Soil Torrance, CA

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	· · · · · · · · · · · · · · · · · · ·	Concentration (mg/Kg)		Reporting Limits (mg/Kg)
HA1-15	**************************************	240		10.
HA2-5		ND	4 4	10.
HA2-10		ND	•	10.
HA2-15		ND		10.
HA3-5		ND		10.
HA3-10	-	ND		10.
HA3-15		63		10.
HA4-15		32		10.
HA1-9		700		10.
HA1-12		520		10.
HA4-9		60		10.
HA4-12		730		10.
	370 37 . 5	. •		

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681 Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94

Project:

Douglas Aircraft Torrance, CA **Date Analyzed:** 07/14/94 **Physical State:** Soil

Project Address: Torn

.

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA2-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	105%	97%	7.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/15/94 JEL Ref. No.: 1681 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/14/94
		Date Received: 07/14/94
Project:	Douglas Aircraft	Date Analyzed: 07/14/94
Project Address:	Torrance, CA	Physical State: Soil
-		

EPA 8020 - Volatile Aromatic Hydrocarbons					
	Con	centration			Reporting
	(ug/Kg)			Limits
Sample ID	Benzene	Toluene	Ethylbenzene	Xy enes	(ug/Kg)
HA1-15	ND	ND	ND -	ND	5.0
HA2-5	ND	ND	ND	ND	5.0
HA2-10	ND	ND	ND	ND	5.0
HA2-15	ND	ND	ND	ND	5.0
HA3-5	ND	ND	ND	ND	5.0
HA3-10	ND	ND	ND	ND	5.0
HA3-15	ND	ND	ND	ND	5.0
HA4-15	ND	ND	ND	ND	5.0
HA1-9	ND	ND	ND	ND	5.0
HA1-12	ND	ND	ND	ND	5.0
HA4-9	ND	ND	ND	ND	5.0
HA4-12	ND	ND	ND	ND	5.0

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681 Maness Ref. No.:

Contact:

Project:

Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94 Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Douglas Aircraft

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA4-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Toluene	99%	102%	2.8%	65-125%
o-Xylene	98%	101%	3.4%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/19/94 1618 JEL 1681/Maness
Attn:	Steve Jones	Date Sampled: Date Received:	07/14/94 07/15/94
		Date Extracted:	07/18/94
Project:	Douglas Aircraft	Date Analyzed:	07/18/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-15	ND	10
HA 2-5	ND	. 10
HA 2-10	ND	10
HA 2-15	ND	10
HA 3-5	ND	10
HA 3-10	ND	10
HA 3-15	ND	10
HA 4-15	ND	10
HA 1-9	ND	10
HA 1-12	ND	10
HA 4-9	ND	. 10
HA 4-12	ND	10

QUALITY CONTROL INFORMATION

Client: Client Address: Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/19/94

FEL Ref. No.:

1618

Client Ref. No.:

JEL 1681/Maness

Attn:

Steve Jones

Date Sampled: Date Received: 07/14/94

Date Extracted:

07/15/94 07/18/94

Project:

Douglas Aircraft

Date Analyzed:

07/18/94

Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

112

Sample Spiked: FEL 1611-2

Parameter	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	113	111	1.79	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94 **JEL Ref. No.:** 1681

Maness Ref. No.: 40443

Contact:

Scott Hultner

Date Sampled: 07/14/94

Project:

Douglas Aircraft

Date Received: 07/14/94 Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

12 soil samples were received sealed, chilled, and intact.

12 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

Approval:

Steve Jones, Ph.D.

Laboratory Manager

Fullerton Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date: FEL Ref. No.:

07/19/94

Client Ref. No.:

1618

JEL 1681/Maness

Attn:

Steve Jones

Date Sampled:

07/14/94 07/15/94

Project:

Douglas Aircraft

Date Received: Date Analyzed:

07/18/94

Project Address:

Torrance, CA

Physical State:

Soil

ANALYSES REQUESTED

EPA 7420 - Total Lead by Flame AA 1.

Approval:

Laboratory Manager

Beth Riley

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client: Client Address:	Maness Environmental P.O. Box 90939 Long Beach, CA 90809	Report Date: JEL Ref. No.: Client Ref. No.:	07/21/94 1687 40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
Project:	Douglas Aircraft	Date Received: Date Analyzed:	07/20/94 07/20-21/94

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Physical State:

Soil

Sample ID Concentration Limit (mg/Kg) (mg/Kg)	
SP12 ND 10	
SP13 130 10	
SP14 160 10	
SP15 130 10	
SP16 330 10	
SP17 160 10	
SP18 550 10	
SP19 140 10	
SP20 84 10	
SP21 120 10	
SP22 270 10	
SP23 160 10	
SP25 48 10	
SP26 260 10	
HA4-20 ND 10	
HA1-20 ND 10	
HA3-20 ND 10	

ND = Not Detected

Project Address:

Torrence, CA

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:
Client Address:

Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date: JEL Ref. No.: 07/21/94 1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed:

07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample Spiked: HA1-20

Parameter	MS <u>Recovery</u>	MSD Recovery	RPD	Acceptability Range
Diesel	98%	. 100%	1.6%	65 - 125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:

Maness Environmental

Report Date: JEL Ref. No.: 07/21/94

Client Address:

P.O. Box 90939

1687

Long Beach, CA 90809

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

	Concentration	Reporting Limits
Sample ID	(mg/Kg)	(mg/Kg)
SP12	ND	10.
SP13	ND	10.
SP14	ND	10.
SP15	ND	10.
SP16	ND	10.
SP17	· ND	10.
SP18	ND	10.
SP19	ND	10.
SP20	ND	10.
SP21	ND	10.
SP22	ND	10.
SP23	ND	10.
SP24	ND	10.

ND

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date: JEL Ref. No.: 07/21/94 1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Project Address:

Client Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample Spiked: HA4-20

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	116%	111%	4.8%	65 - 125

MS

= Matrix Spike

MSD

= Matrix Spike Duplicate

RPD

= Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:
Client Address:

Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

07/21/94

JEL Ref. No.:

1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Date Received:

07/20/94

Project:
Project Address:

Douglas Aircraft Torrence, CA Date Analyzed:

07/20-21/94

Physical State:

Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

	Reporting Limits				
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)
SP-13	ND	ND	ND ·	ND	5.0
SP-14	ND	ND	ND .	ND	5.0
SP-15	ND	ND	ND	ND	5.0
SP-16	ND	ND	ND	ND	5.0
SP-17	ND	ND	ND	ND	5.0
SP-18	ND	ND	ND	ND	5.0
SP-19	ND	ND	ND	ND	5.0
SP-21	ND	ND	ND	ND	5.0
SP-22	ND	ND	ND	ND	5.0
SP-23	ND	ND	ND	ND	5.0
SP-24	ND	ND	ND	ND	5.0
SP-26	ND	ND	ND	ND	5.0
HA4-20	ND ·	ND	ND	ND	5.0
HA1-20	ND	ND	ND	ND	5.0
HA3-20	ND	ND	ND	ND	5.0

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Maness Environmental

Report Date: JEL Ref. No.: 07/21/94

Client Address:

P.O. Box 90939 Long Beach, CA 90809

Client Ref. No.:

1687 40443

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Attn:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

Sample Spiked: HA4-20

Parameter	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)
Toluene	97%	100%	3.1%	65 - 125
o-Xylene	95%	100%	5.3%	65 - 125

= Matrix Spike MS

= Matrix Spike Duplicate MSD **RPD**

= Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY REPORT

Client: Client Address: Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

07/21/94

1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Date Received: Date Analyzed: 07/20/94

Project:

Douglas Aircraft

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

2. EPA 8020 - Volatile Aromatic Hydrocarbons

Mod 8015 Diesel - Semi-Volatile Hydrocarbons

Approval:

Steve Jones, Ph.D. Laboratory Manager

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/27/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1644
	Fullerton, CA 92635	Client Ref. No.:	40443/Maness
Attn:	Steve Jones	Date Sampled:	07/20/94
		Date Received:	07/24/94
		Date Extracted:	07/22/94
Project:	Douglas Aircraft	Date Analyzed:	07/26/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-20	ND	10
HA 4-20	ND	10
HA 3-20	ND	10

ND = Not Detected

FULLERTON ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client: Client Address: Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/27/94

FEL Ref. No.:

1644

Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled: Date Received: 07/20/94

Date Extracted:

07/24/94

Project: Project Address: Douglas Aircraft

Date Analyzed:

07/22/94 07/26/94

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

106

Sample Spiked: FEL 1644-1

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	104	103	0.39	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate = Relative Percent Difference RPD

Fullerton

Environmental

Laboratory

LABORATORY REPORT

Client:
Client Address:

Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/27/94 1644

FEL Ref. No.: Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled: Date Received:

07/20/94

07/24/94 07/26/94

Project:
Project Address:

Douglas Aircraft Torrance, CA Date Analyzed: Physical State:

Soil

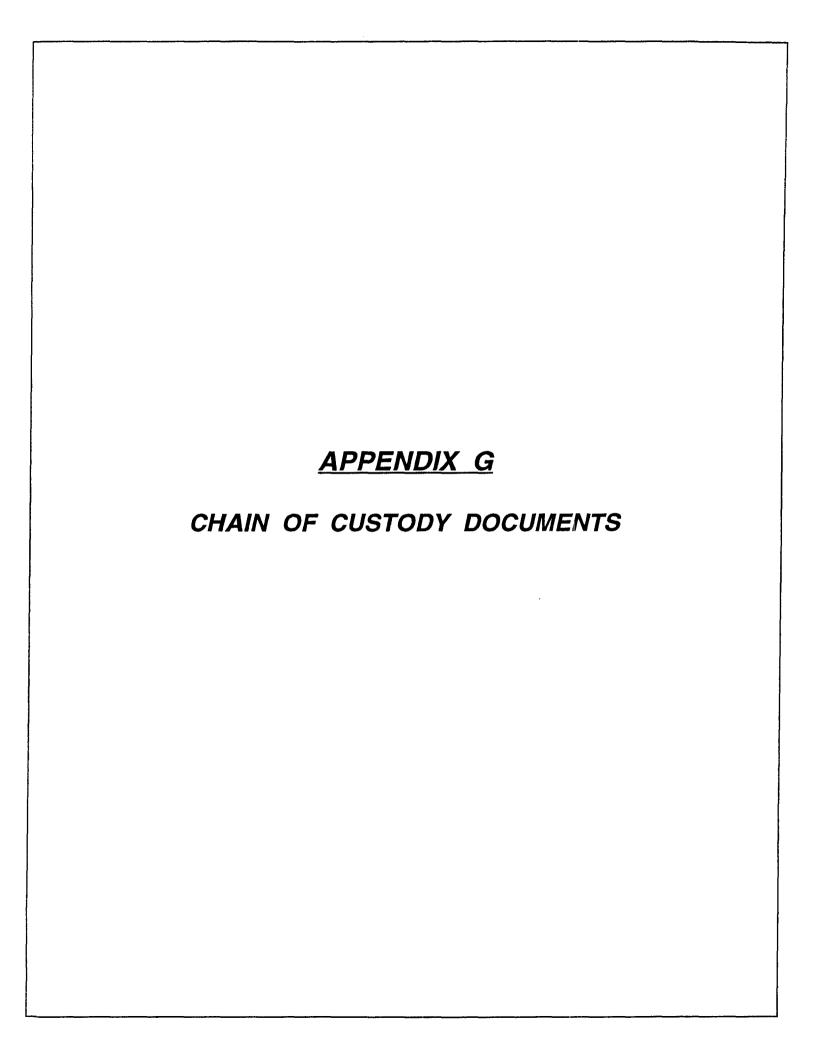
ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

aboratory Mariag

Beth Riley



Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

Chain-Of-Custody Record

Client MANE.		Date 7/2	lan				,	13	/		Ana	lvsis	Reque	sted	/	′ /	JEL Project #
Project Name		Client Project	199	-				sno _{en} /	/	/	/	/	/	/	//		1675
Project Address	AIRCRAFT NORMANDIE	Turn Around R	lanuacted:	_			S(), A		$/_{_{M}}$					/ /	/ /		Page / of 3
19503	. NORMANDIE		diate Attention				000	' /			' /	' /	/ /	/ /	///	/	Lab Use Only
TORRA			24-48 Hours 72-96 Hours			(8)		/9	¥)						\		Sample Condition as Received:
Project Contact		Norma			Sample	Matrix: Sc		10/2 12/2	\ \ 0\;	3	//	/	/ /	/ /.	of Containers		Chilled □ yes □ no Sealed □ yes □ no
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Samolo	V	1	(b) (4)						Numbe		Conta	iner/Comments
T13-7		7/2/44	10:25	1675-001	5	X		X	X					/			
T14-7		7/7/99		1675-002	5	X		X	X					/			
T11/12-14		7/7/94	سر دررا	1675-003	5	X		X	X					1		- · · · · · · · · · · · · · · · · · · ·	
T11-14		7/7/95	1105	1675-004	5	X		X	X					1			
T12-14		7/7/94	1111	1675-005	5	X		Χ	X					1			
SP-1		7/7/9	2 1111	1675-006	5	7		X	X								
SP-2		7/7/95	1111	1675-007	5	X		X	X					1			
50-3		7/7/9	11:11	1675-000	1.	X		X	X					1			
5P-4		7/7/9	4 1275	1	_م	Χ	X	X	Y					1			
51-5		7/7/9	4 1220	1675-010	2	X	X	Y	У					1			
• Relinguished by	19/3/XX	17-7-96	Received by (20	² []	_				Date フ/	/7/9	py	10	1	otal Nun	nber of Containers
Company (((())	Time / 30	Company			-V-				_	Time				ional Comme	ents	
Relinquished by (Signature)	Date	• Received by L	ENVIR Laboratory (signa		mE,	NT	196		l	Date	2.3					
			_							[
Company		Time	Company								Time						

Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

Chain-Of-Custody Record

Client		Date						/2/	/		Anal	veie F	Request	tad.	/	/	JEL Pro	ect #
MANESS Project Name		7-7 Client Project						sign /	/	/	/ /	ysis r /	/ /	/	//		16	75
	IRCRAKT	Onent rioject	•				1.45	7						/ /	/ /		Page	"
Project Address		Turn Around Re	equested:			/	/ છું /	/ /	/ /	/ /	/ /	/ /	/ /	' /	///	/	2	of 3
Project Address 19503 S.	VORMANDIE		late Attention			/¿				Α,					/ /		Lab Use	-
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Chain-Of-Custody Record

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Chain-Of-Custody Record

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Chain-Of-Custody Record

Client Sample Matrix: Soil (S), Slutge (SL), Aqueous (A) 7/7/94 JEL Project # **Analysis Requested Project Name Turn Around Requested:** Immediate Attention Lab Use Only Rush 24-48 Hours 10 RPANCE Sample Condition Rush 72-96 Hours as Received: Normal **Project Contact** Chilled □ yes □ no HULTMER Mobile Lab Sealed □ yes □ no Laboratory Sample ID Sample Number Sample Location Date Time Container/Comments SP-6 2/2/94 12-15 25 MU GASS JAKES 5P-7 WILLY 12:15 X 5P-8 7/7/94 1228 SP-9 12:10 5 P-10 7/7/94 1225 5 59-11 7/7/94 12:00 TW-A16 7/7/94 5 12:33 X T70-B16 720 - C/6 12.36 5 X T19-A16 13:09 • Relinquished by (signature) Date, Received by (Signature Date 8/94 7-8-84 **Total Number of Containers** Company Additional Comments Relinquished by (signature) Date • Received by Laboratory (signature) Date Company Time Company Time

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Chain-Of-Custody Record

Sample Matrix: Soil (S), Sudge (SL), Aqueous (A) JEL Project # 7/7/94 Analysis Requested Client Project # **Turn Around Requested: Project Address** Lab Use Only Immediate Attention Sample Condition as Received: Rush 24-48 Hours TOMERNEE, CA Rush 72-96 Hours Chilled ☐ yes ☐ no Normal **Project Contact** Sealed □ yes □ no Mobile Lab Laboratory Sample Number Container/Comments Sample ID Sample Location Date Time 125 ml GUASS THIS T19-B16 13:59 119-CK 13:09 O Relinquished by (signature) Received by (signature) Date. **Total Number of Containers** 7/9/94 Additional Comments Company 0745 FEL • Received by Laboratory (signature) Relinquished by (signature) Time Time Company Company

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Company		Time	Company			<u></u>				Time						

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Chain-Of-Custody Record

MANES FOUR JEL Project # Analysis Requested Client Project 4 681 DOUGLAS MIRCRAPT CO 1046 Project Address 195035. NORHANDIE AVE Immediate Attention Lab Use Only Rush 24-48 Hours Sample Condition as Received: TORRANCE, CH. 90502 Wumber of Containers Rush 72-96 Hours Normal Chilled □ ves □ no SCOTT 1 GARI ☐ Mobile Lab Sealed □ ves □ no Laboratory Sample ID Sample Location Sample Number Date Time Container/Comments BENEATH PORTION UST 9:25 1681-001 HA2-5' SW OF UST 10:00 1681-002 4A2-10 SW OF UST 10:20 168 -003 SW OF UST HA2-15' 1681-004 HA3 5' OFUST 9:50 1681-005 HA3-10' HA3-15' HA 4-15' 9:30 UST 1681-008 BENEATH FOR SHOK UST 1681-009 BENFAMY FORROR UST 7-14-94 **Total Number of Containers** 13090m Company Additional Comments S Relinquished by (signature) Received by Laboratory (signature) Date Company Time Company Time

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Tei. 714 449-9937 Fax 714 449-9685

Project Name DOUG Project Address 19 50	3 S. NOR	N. RCROPTG TANDIE AG A. 90502	Client Project 404 Turn Around Ro	quested: late Attention 4-48 Hours 2-96 Hours			Matrix Soil (S)	St. ISINGO (St.) A	(K) (S) (S) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A		//	Analy	ysis F	Reques	Mumber	Containers	Page of Condition as Received: Chilled yes no
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P.U. BOX 5387 Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

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Tel. 714 449-9937 Fax 714 449-9685

Chain-Of-Custody Record

Client JEL Project # maness **Analysis Requested Project Name** XNGLAS AIRCRAFT **Prolect Address** Immediate Attention Lab Use Only Rush 24-48 Hours Sample Condition as Received: Rush 72-96 Hours Chilled ☐ yes ☐ no ☐ Normal Project Contact Mobile Lab Sealed □ yes □ no Laboratory Sample Number Sample ID Sample Location Date Time Container/Comments 11 11 11 IJ 11 , , Received by Asignature Total Number of Containers Company * Be sure to 11 mix composites... Date Relinquished by (signature) Time Company Time Company

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Chain-Of-Custody Record

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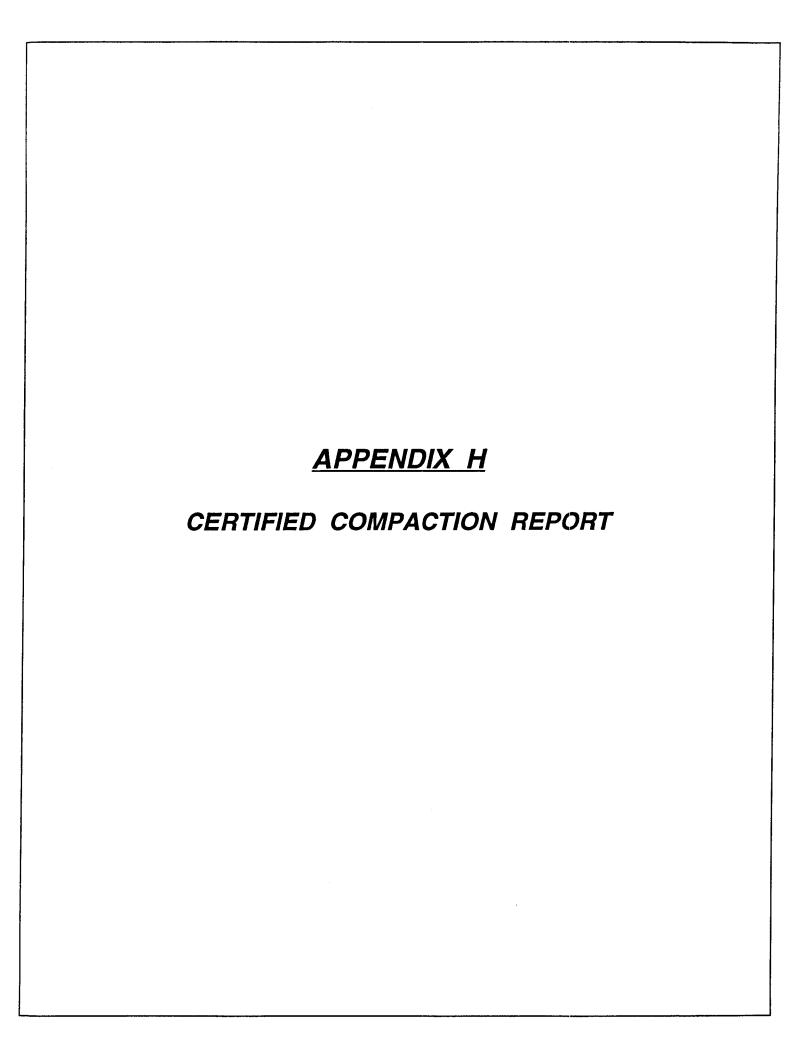
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Chain-Of-Custody Record

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NorCal Engineering

SOILS AND GEOTECHNICAL CONSULTANTS 10641 HUMBOLT STREET LOS ALAMITOS, CA 90720 (310) 799-9469 FAX (310) 799-9459

August 11, 1994

Project Number 4896-94

Maness Environmental Services 1101 E. Spring Street Long Beach, California 90807-0917

Re:

Observation and Testing of Backfill Operations - Tank Excavation Backfills for McDonnell Douglas Facility - Building No. 1 - Located at 19503 South Normandie Avenue, in the City of Los Angeles, California

Dear Sirs:

Pursuant to your request, this firm has observed and tested backfill operations at the above referenced location. Results of compaction tests are attached and locations of these tests are shown on the accompanying plot plan. The excavation backfill meet secondary fill requirements for the support of floor slabs or pavement. All work was performed in accordance with all present day standards of the Soils Engineering Industry.

All demolition debris was removed from the fill area prior to the placement of any fill soils. The existing low density soils were removed to competent native soils, the exposed surface scarified, moisture conditioned and then recompacted to a minimum of 95% relative compaction. The bottom of the excavation was approved by this firm prior to placing backfill. The bottom of the excavations were about 15 and 20 feet below ground surface and backfilled with 8 to 10 feet of pea gravel. The fill soils and pea gravel were compacted to a minimum of 95% of the laboratory standard.

The relative compaction for the upper 8 feet of the fill soils was determined by Sand Cone Method (ASTM:D 1556-82) and by the Drive Tube Method (ASTM: D-2937). Relatively undisturbed samples of the pea gravel were obtained with a split spoon sampler with a rock catcher. The maximum density of the fill soils was obtained by the laboratory standard (ASTM:D 1557-78) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every 2 feet in depth of fill placed. A backhoe mounted vibratory plate was utilized for compaction control. A water hose provided moisture control. No chemical analysis was performed by NorCal Engineering on the tank excavation nor the backfill soils.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,

NORCAL ENGINEERING

Keith D. Tucker Project Engineer R.G.E. 841 Troy D. Norrell President

TABLE I MAXIMUM DENSITY TESTS (ASTM:D 1557-78)

Soil Type	Classification	Optimum <u>Moisture</u>	Maximum Dry Density (lbs./cu.ft.
1	SAND, fine grained, silty	12.0	118.0
II.	Pea gravel	6.5	128.0
111	SAND, fine to coarse grained, slight silt content, slight clay content	9.5	126.0
IV	SAND, fine grained, silty	12.0	119.0
V	SAND, fine to coarse grained, slight clay content, gravelly pea gravel	10.0	123.0

TABLE II
COMPACTION TESTS RESULTS

Date of Test Excavation	Test <u>No.</u>	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/19/94	101	15.0-15.5	13.1	112.3	95	I
7/19/94	102	13.0-13.5	5.5	106.2	97	11
7/19/94	103	11.0-11.5	4.8	104.0	95	11
7/19/94	104	9.0-9.5	4.7	106.8	97	11
7/20/94	105	7.0-7.5	10.7	120.1	95	111
7/20/94	106	6.0-6.5	10.3	113.3	96	IV
7/20/94	107	4.0-4.5	10.9	100.9	84	IV
7/20/94	107A*	* 4.0-4.5	12.3	115.2	95	IV
7/22/94	108	3.0-3.5	8.5	117.2	95	V
7/22/94	109	2.0-2.5	10.3	115.1	96	IV
7/22/94	110	0.0-0.5	11.8	113.6	95	IV
Excavation	2					
7/22/94	111	20.0-20.5	13.7	112.3	95	1 .
7/22/94	112	18.0-18.5	5.2	122.8	96	П
7/22/94	113	16.0-16.5	5.4	121.7	95	11
7/22/94	114	14.0-14.5	4.9	124.0	97	II
7/22/94	115	12.0-12.5	4.8	123.2	96	11
7/22/94	116	10.0-10.5	5.4	104.9	96	II
7/22/94	117	8.0-8.5	5.4	103.8	95	11
7/22/94	118	6.0-6.5	5.0	106.2	97	11

NorCal Engineering

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

TABLE II

COMPACTION TESTS RESULTS

Date of Test Excavation	Test <u>No.</u> n 2	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/22/94	119	5.0-5.5	5.3	105.3	96	П
7/28/94	120	6.0-6.5	9.4	120.1	95	411
7/28/94	121	4.0-4.5	9.7	121.7	95	11
7/28/94	122	2.0-2.5	10.1	121.9	95	11
7/28/94	123	1.0-1.5	10.4	122.1	95	H
8/3/94	124	0.0-0.5	8.7	121.8	95	11

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

BUILDING 1

- TESTS 101-110 STORAGE AREA APPROXIMATE LOCATION OF TANK EXCAVATION BACKFILL

DOUGLAS AIRCRAFT FACILITY

NOT TO SCALE

NorCal Engineering SOILS AND GEOTECHNICAL CONSULTANTS

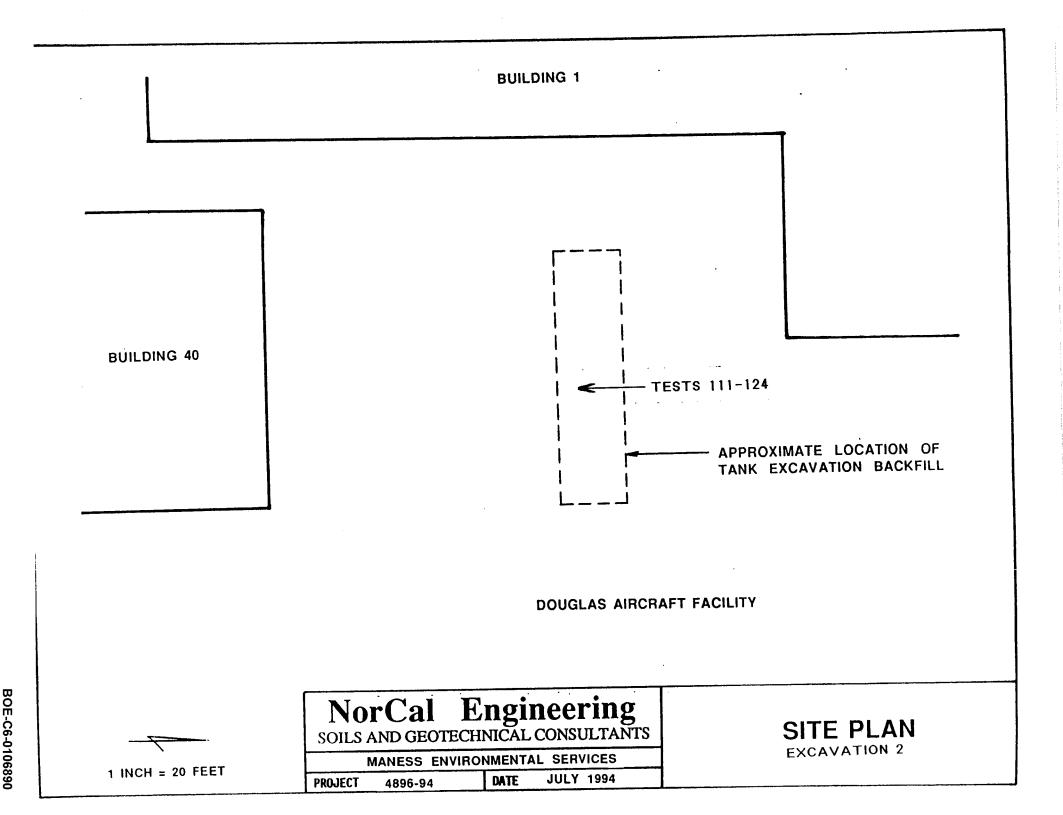
MANESS ENVIRONMENTAL SERVICES

PROJECT 4896-94

DATE JULY, 1994

SITE PLAN

EXCAVATION 1



CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

JOB ADDRESS: 19503 South Normandie Avenue, Los Angeles

SOIL TESTING AGENCY: NorCal Engineering

PROPERTY OWNER'S NAME: McDonnell Douglas Corporation

OWNER'S ADDRESS: 19503 South Normandie Avenue

Los Angeles, California

PER REPORTS ON OUR PROJECT NUMBER: 4896-94

DATE WORK STARTED ON PROJECT: 7/19/94

DATE FILL WAS COMPLETED: 8/3/94
DATE OF THIS CERTIFICATE: 8/11/94

TO THE SUPERINTENDENT OF BUILDING:

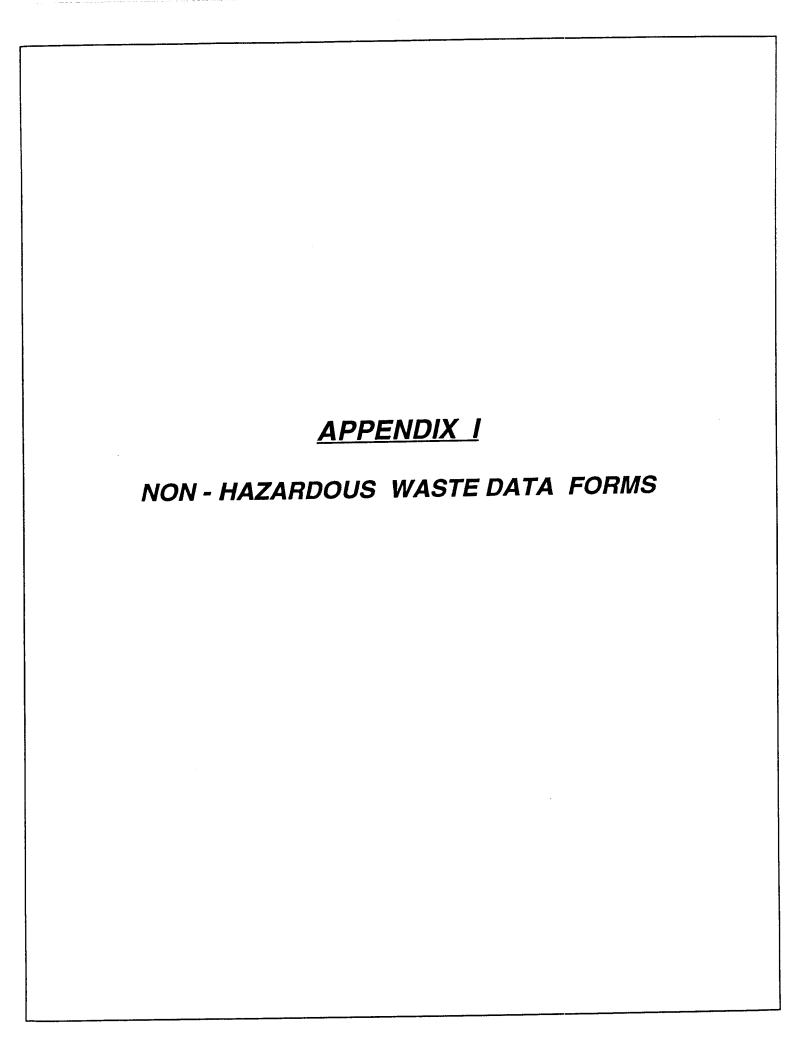
I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conforming the same w

requirements of the Los Angeles City Building Code.

Keith D. Tucker R.G.E. 841

Exp. 12-31-96

* For the purpose of this certificate, to have "personally inspected and testing performed by any person responsible to the engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.



stomer

REPORT OF

Page 1

stomer Name: : DOUGLAS AIRCRAFT

DATE : 08-04-94 TIME : 10:19:32

e In	Manifest No.:	Load No.:	Transporter:	Driver's Name:	Net Tons :	
·	93-93158	001	CHARLES WILLSON	CHARLES WILLSON	23.94	
?7 -94	03-03158	983	HULLINGER	HAL HULLINGER	23. 14	
?7 -94	03-03158	988	MIKE & SON	MIGUEL GUERRERO	23.30	
?7 -94	03-03158	884	CROOKS	KENNETH PRATTE	24.76	
?7 -94	03-0 3158	995	JW TRUCKING	ROY NICKELL	25.23	
?7-94	93-93158	986	BVC	DAYANE SARGENT	23.55	
?7 -94	03-0 3158	987	MANESS	GREG MARISCAL	2 6. 51	
27-94	03-0 3158	616	MIKE & SONS	MIGUEL GUERRO	25. 83	
27-94	03-03158	009	JW TRUCKING	ROY NICKELL	26.16	
27-94	03-0 31 5 8	886	HANESS	estel McMaster	21 .58	
?7 -94	03-0 3158	011	CHARLES WILLSON	CHARLES WILLSON	24.85	
?7 -94	03-03158	612	HULLINGER	HAL HULLINGER	23 . 98	
7-94	03-03158	6 13	Crooks	Kenneth Pratte	23. 56	
?7 -94	03-03158	614	BVC	DHAYNE SARGENT	2 4. 55	
7-94	83-83158	6 15	MANESS	GREG MARISCAL	20.69	
8-94	03-03158	019	CROOKS	KENNETH PRATTE	25.50	
8-94	03-03158	817	MIKE & SONS	MIGUEL GUERRERO	23.97	
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8-94	03-03158	0 16	CHARLES WILLSON	CHARLES WILLSON	24.41	
8-94	03-03158	28	MORALES TRUCKING	GABRIEL DROZCO	24.76	
8-94	03-03158	8 21	CHARLES WILLSON	CHARLES WILLSON	24.46	
8-94	03-03158	8 22	HAL HULLINGER	HAL HULLINGER	16.24	
8- 9 4	03-03158	0 23	MIKE & SONS	MIGUEL GUERRERO	25. 09	
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	1101 E. Sprin	g Street			ard Ok			count Number	with ma
	Long Beach, C	A 90807		(>	-	C JAN C AC		
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ultar	,			Person to	· Contact:		TPH Levels		
Consultant				FAX#:)	,	AVG. Levels		
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and/or	TPS Technolog	ies Inc.		Person to	加) 862 Contact:	-9001	<u>, </u>		
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ner		ifornia 92301		(61	9) 246	-8004		(C.C.)	
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	Clay Other List any exception to items listed abor	10 - 20%			<u> </u>				03.
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	Printor Type Name: Robert G.	Generator Consulta		Signature ar			ell. In		27 94
Transporter	condition as when received.	[/We acknowledge receipt of t [/We further certify that this to, subtracting from or in an	soil is being a	lirectly tr	ansported fr	om the Gen	oil is being deliver eration Site to the	ed in exactly Designated	the same Facility
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Facility									,
ing f	Recycling Facility certifies to	he receipt of the soil covered l	by this manife	est except	as noted abo	ve:			
Recycling	Print or Type Name:			Signatur e an	d date:	11			
Re				, Aa	unc	JUE	mero	7-27	7-54

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	3855 LAKEWOOD BLVD. LONG BEACH. CA. 90846			::\\\\-(\)			ccount Normaer				
	Consultant's Name and Billing Address: Maness Environmenta	l Sryas Ind	2.	Consultant's Phor	ne #: 595–4555	5					
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r Consultant				FA (#:)		AVG. Levels		:			
and/or	Designated Facility (Transport to): (minite & add TPS Technologies Inc	ress)		Facility Phone #:	62-8001	Facility Perm	it Numbers				
tor ar	12328 Hibiscus Avend	76		Person to Contact Darren B				·			
Generator	Adelanto, California	a 92301		FA(619) 2							
Ge	Transporter Name and Mailing Address: Maness Environmental	l Srves Inc	·	Transporter's Pho (310) 5	ne #: 195-4555	Transporters	US EPA ID No	:			
	1101 E. Spring Stree	et		Person to Contact Richard	Okuda	Transporter's	Transporter's DOT No.:				
	Long Beach, CA 9080	7		FA (X#:)		Customer Ac	count Number	with TPS:			
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	20% - over C List any exception to items listed above:	Outer G									
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	Print or Type Name: Robert G. Tye	3 /	J	Signature and date:	1 16.3	Jull O	Month 07	Day Year 27 94			
Transporter	Transporter's certification: I/We acknow condition as when received. I/We further without off-loading, adding to, subtracti	certify that this soil	is being a	lirectly transport	ed from the Ge	soil is being deliver eneration Site to the	ed in exactly Designated l	the same ' Facility			
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Recycling Facility	Recycling Facility certifies the receipt of Print or Type Name:	the soil covered by th		st except as noted	i above:						
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	Print or Type Name:	Generator	Consultant	<u> </u>	Signature and date:	16	et one		Day Year	
H	Robert Transporter's certification:	J. UE	receipt of the s	oil descri	bed above and c	ertify that such	soil is being deliver	``		
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Tran	Print or Type Name:	4N6+ K)		Signature and date:		22	Month 07	Day Year	
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Facility									1	
	Recycling Facility certifies t	he receint of the se	oil covered by th	nis manif	est ercent as not	ted above:				
Recycling	Print or Type Name:				Signature and date:					
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	Manifes	<u> </u>	TPS Technologies Soil Recycling Non-Hazardous Soils					Manifest 1				
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ant	Generation Site Transport from a	Sanne 25 ald 588)			Site Phone =			BETY Levels				
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and/or	Designated Facility (Transport to) TPS Technologi	(name & address) es Inc.			Facility Phone (800)	862-	8001	Facility Permi	t Numbers			
or ar	12328 Hibiscus	Avenue			Person to Con Darren	Bart	lett					
Generator	Adelanto, Cali	fornia '	92301		EA (619)	246-	8004			j j		
Ge	Transporters Same and Mailing A		rves Inc.		Transporter's	Ph3755-	4555	Transporter's	US EPA ID No	i.:		
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and/or	Designated Facility (Transport to): 'name & addre TPS Technologies Inc			Facility F		2-8001		Facility Permi	t Numbers	
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enerator	Adelanto, California	92301		FAX 6 1	9) 24	6-8004	4			
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	DEPARTMENT C1-710, MC 3855 LAKEWOOD BLVD.	127-10					1.24 1				
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	Long Beach, CA 90	1807			E \€ =)	-		Customer Acc	iount Number	V # 178
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Consultant					Person	to Conte	act:		TPH Levels		
					F. \K= :)	No.		AVG. Levels		
and/or	Designated Facility (Transport to): (name & TPS Technologies I					Phone #	#: 862-8Ø	01	Facility Permi	t Numbers	
or a	12328 Hibiscus Ave	nue			Person Dar	to Conta ren	Bartle	tt			
Generator	Adelanto, Californ	ia 92	301		ãŽ ^{A3}	19)	246-80	24			
g	Transporter Name and Mailing Address: Maness Environment		es Inc.		Transp	orter's P 10)	hone #: 595-45!	55	,	US EPA ID Ño	.:
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	Sand		Gas Diesel Dole Other	2	24				78020	30526	4710
	Sand	000	Gas 🖸 Diesel 🖸 Other 🖸								23.5
	List any exception to items listed above:										
	Generator's and/or consultant's certift Data Sheet completed and certified by alter it in any way.	fication: I/W melus for t	e certify that t he Generation	he soil Site sh	referenc own ab	ed here ove and	ein is taken en I nothing has	itirely fro been add	om those soils led or done to s	described in such soil that	the Soil t would
	Print or Type Name: Generato Robert G. Tu		Consultant 🖸		Signatu	and date:	B. T.	unl	10	Month 7	Day Year 27 94
Transporter	Transporter's certification: I/We ackn condition as when received. I/We furt without off-loading, adding to, subtra	owledge rec her certify th	eipt of the soil at this soil is	describ being d	ed abor irectly	ve and o transpo	certify that su orted from the	ich soil is	s being deliver	ed in exactly Designated i	the same
ransp	Print or Type Name:		The unity way t		Signature					Month	Day Year 2 7 4 4
	DWCV-2 Sarger Discrepancies:			/	~~q		Jan	- -			2 / 1 0 7
Recycling Facility											
ng Fa	Recycling Facility certifies the receipt	of the soil c	overed by this	manife	st excer	t as no	ted above:				
yclir	Print or Type Name:				ignature :					- <u></u>	
Ве с						VVI		Kim	With -	ア-ンフ	7-51/

	Manifest 1PS Technol		rdous Soils	y CITING -	. ! Mapl				
Γ			ter Truck #: 3 · 2404	#1.#E7	Company The		Load #		
	DOUGLAS AIR CRAFT COMPANY, DEPARTMENT C1-710, MC 127-10		t e <u>stator</u> s ^M hone z	1 3130	a lemenatoria		107		
	B855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. NORMANDIE TORRAN	NCE			Customer Ac	court Number			
	Consultant's Name and Silling Address: Maness Environmental Srvcs Inc.		Consultant's Phone s						
	1101 E. Spring Street		Person to Contact: Richard 0	kuda					
	Long Beach, CA 90807		, , , , , , , ,	-		count Number	vitti 119		
ant	Generation Site. Transport from a frame of 15 to 580		Site Oftone =:	-	BETX Levels				
Consultant			Person to Confact:		TPH Levels				
			FA X #:)		AVG. Levels				
and/or	Designated Facility (Transport to): (name & xidress) TPS Technologies Inc.		Facility Phone #: (800) 86	2-8001	Facility Perm	it Numbers			
	12328 Hibiscus Avenue		Person to Contact: Darren Ba	rtlett					
Generator	Adelanto, California 92301		FA(619) 24	6-8004					
Ge	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc.		Transporter's Phone (310) 59	#: 5-4555	Transporter's	US EPA ID No.			
	1101 E. Spring Street		Person to Contact: O	kuda	Transporter's	DOT No.:			
	Long Beach, CA 90807		FA ((#:)	-	Customer Acc	count Number (with TPS:		
	Description of Soil Mounture Content Contaminated by	Appro	X Ov	on of Delivery	Gross Weight	Tare Weight	Net Weight		
	Sand Organic 0 - 10%	2	·24		78720	37200	1110		
	Sand						50.		
	List any exception to items listed above:	<u> </u>							
	Generator's and/or consultant's certification: I/We certify that to Data Sheet completed and certified by me/us for the Generation alter it in any way.	he soil Site sh	referenced herein is own above and noth	taken entirely fro hing has been add	om those soils ed or done to	described in s such soil that	the Soil would		
	Print or Type Name: Generator Consultant G. Tuell, Jr.		Signature and date:	8.9	well.	On 07 2	Day Year 94		
Transporter	Transporter's certification: I/We acknowledge receipt of the soil condition as when received. I/We further certify that this soil is without off-loading, adding to, subtracting from or in any way a	being d	lirectly transported	from the Generat	heing deliver on Site to the	Designated l	Facility		
Tran	GREG MARISCAL		Signature and date:	Touse			27 94		
lity	Discrepancies								
Recycling Facility			 						
ycling	Recycling Facility certifies the receipt of the soil covered by this is Print or Type Name:		anifest except as noted above: Signature and date:						
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	Manifest	TPS Technologies Soil Recyclin Non-Hazardous Soils					ng				
	Date of Shipment: 94	e de la constanción de la cons	Transpor			##### 03	315	is a minimal service of the service		Load #	
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	LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. N			, C.	>		-	1. 186 Hirth C.		V 17 ·	
	Consultant's Name and Billing Address: Maness Environmenta 1101 E. Spring Street		e.	(3		95-4555 	5				
	· -					Okuda					
1	Long Beach, CA 908	0 7		E. \& ≠i	·			Customer No	ount Number	viiis IPS	
ant	eperation Site. Transport from a lower endian	A	<u></u>	Fire 127	one #			BETY Levels			
Consultant		1	,	Person	to Contact:			FPH Levels			
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ισ/pι	Designated Facility (Transport to): name & add TPS Technologies Inc			Facility (8	Phone #: ØØ) 	62-8001		Facility Permi	t Numbers		
or ai	12328 Hibiscus Aven	u,e		Person	to Contact:	artlett					
Generator and/or	Adelanto, California	a 92301		FAXE	19) 2	46-8004					
Gei	Medicas Elivasi onmenoe.	Fransp	orter's Phon	95-4555	;	Transporter 5	US EPA ID No.				
	1101 E. Spring Street Long Beach, CA 90807				r Sontact:	Okuda		Transporter's	DOT No.:	with TDC.	
)			Customer Acc	ount Number	vith TPS:	
	Description of Soil Moisture Cor	nent Pontambetta		ox. Qty:	Descri	nion of Delive	y 🤼	Gross Weight	Tare Weight	Net Weight	
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	Generator's and/or consultant's certifica Data Sheet completed and certified by m alter it in any way.	ation: I/We certify th ne/us for the Generat	at the soil ion Site sh	reference nown ab	ced herein ove and no	is taken entir othing has bee	ely froi n adde	m those soils ed or done to s	described in such soil that	the Soil would	
	ش کارسن دست بر ساک است بر در بسید با کار ایک نام بر شروعی	oll, Jr.		Signature	Let	8.9			07/2	Day Year 2 94	
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Trai	Print or Type Name: ESTEL MCMASTER	Z	Signature		mit	<u>ر</u>		07	7 94		
Recycling Facility	Discrepancies:										
cling	Recycling Facility certifies the receipt of Print or Type Name:	the soil covered by t		Signature .	and date:						
Яесу				m	6,6	le	men	+ 7-	379		

TPS Technologie Non-Hazaro					Recycling		Manifest a				
	Date of Shipment: 94 Response to the same of the same		ansporter	r Truck ≠:	03	1	58		10ad #		
	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846	T. MORDA		310	"533- <i>7</i> 9		The second second	our Number	ente Tre		
	SITE ADDRESS: 19503 S. NORMANDII Consultant's Name and Billing Address: Maness Environmental Srvcs 1101 E. Spring Street			Person to Cor	595-455	5					
	Long Beach, CA 90807			, (<u>)</u>			Customer Acc	ount Number:	Fig. 10%		
ig ig	Clemeration Site Transport of modernments and inser-			Site Phone #:	-		BETN Leveis				
Consultant				Person to Cor	ntact:		TPH Levels				
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and/or	Designated Facility (Transport to): (name & address) TPS Technologies Inc.			Facility Phone (800)	** 862-800	1	Facility Permi	Numbers			
tor a	12328 Hibiscus Avenue			Person to Cor Darren	Bartlet	t			. 10 to 10 t		
Generator	Adelanto, California 9230)1		^{F.\} (619)	246-800	4	•		#1.7 1.47 1.47		
	Transporter Name and Mailing Address: Maness Environmental Srvcs		fransporter's (310)	Phone #: 595–45 5	5		US EPA ID No.:	vith TPS:			
	1101 E. Spring Street		Richar	d Okuda		Transporter's l	DOT No.:				
	Long Beach, CA 90807	Ī	FA (X#;)	-		Customer Acco	ount Number w	vith TPS:			
	Description of Soil Adisture Content Contai	A PROPERTY OF	Approx	. Oty:	scription of Deliv	ery 🗶	Gross Weight	Tare Weight	Net Weight		
	Sand Organic □ 0 - 10% □ Gas Clay □ Other □ 10 - 20% □ Die 20% - over □ Ott	s 🔾 esel 🔾 her 🎉	22	t			89800	30450	<u> </u>		
	Clay Cother 20% - over 2 Oth	s O esel O ner O					۸.		56.1		
	List any exception to items listed above:										
	Generator's and/or consultant's certification: I/We con Data Sheet completed and certified by me/us for the Contact it in any way.	rtify that th Generation S	ie soil re Site shot	eferenced he wn above ar	rein is taken ent id nothing has b	irely froi een adde	m those soils and or done to s	lescribed in t uch soil that	he Soil would		
	Robert G. Tuel			gnature and dat	at b.	Ta	all. J	072	9 Year		
Transporter	Transporter's certification: I/We acknowledge receipt condition as when received. I/We further certify that without off-loading, adding to, subtracting from or in	this soil is b	eing dir	ectly transp	orted from the (h soil is Generati	being delivere on Site to the	d in exactly t Designated F	he same acility		
Tran	Print of Type Name: N'CKe!		Sig	gnature and plat	MILLE			1077	7 94		
ty	Discrepancies:										
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Recy	Time of type rune.	Jig			Kon	nent	7-5	2-91/			

	Manifest	on-Haza	rdous	Soils	cycling	! Man	! Manifest # 1				
	Date of Shipment: 94 Responses	grade Transport	Transpor	rter Truck	√ #1	23	A 4 772		Load #		
	Recogner's Name and Billing Address			l mag	**************************************		3158	(400 V 1 V	1010		
	DOUGLAS AIR CRAFT COMPA				NO 2:	33-792	26				
	DEPARTMENT C1-710, MC I 3855 LAKEWOOD BLVD.	.27-10									
	LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. N	ORMANDIE TORR	ANCE	1/2/2	>			.ccourt Number			
	Consultant's Name and Billing Address: Maness Environmenta	1 Srves Inc	· ·		itant's Phon 10) 5	te #: 195–4555					
	1101 E. Spring Stre	et		Ric	na Contact nard	Okuda					
	Long Beach, CA 908	७ ७७		5 7 % =-)		Cuer mark	Cust mer Account Nameer with TDS			
ant	Generation Site. Transport from a iname & ala	(, e.c.)		Site 21	one =;		SETN Levels	•			
sult			•	Persor	to Contacti		FPH Levels				
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io/pi	Designated Excility (Transport to): (name & add	lress)		Facilit	/ Phone #: タタ) 	62-8001	Facility Pern	üt Numbers			
or ar	12328 Hibiscus Aven		Person	to Contact:	artlett						
Generator and/or	Adelanto, Californi		FAXE	19) 2	46-8004						
Gei	Transporter Name and Mailing Address: Maness Environmenta	1 Srves Inc	·.	Transp	orter's Phot 10) 5	95-4555	Transporter	s US EPA ID No	ı.:		
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	District Control of the Control of t	nent Comaninaed	M Appr	ox. Qty:	Descri	ption of Deliver	y Gross Weigh	Tare Vicent	Net Weight		
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	Clay Other 10 - 20%	Gas Diesel C							25.		
	20% - over List any exception to items listed above:	J Other J							<u> </u>		
	Generator's and/or consultant's certifice Data Sheet completed and certified by n alter it in any way.	ation: I/We certify tha ne/us for the Generation	at the soi on Site sh	l referen 10wn ab	ced herein ove and n	is taken entire othing has beer	ly from those soil n added or done to	described in such soil that	the Soil t would		
	Print or Type Name: Generator ,	Consultant	ティ	Signature	and date:	B.	Tuell O	Month 2	Day Year 94		
Transporter	Transporter's certification: I/We acknown condition as when received. I/We furthe without off-loading, adding to, subtract	r certify that this soil	is being	directly	transporte	ed from the Gei	soil is being delive neration Site to th	red in exactly e Designated l	the same Facility		
Trans	Print Type Name:	errero			and date:	ul x	luca	07 Z	7 94		
7	Discrepancies:	,		<	J						
Recycling Facility											
ing F	Recycling Facility certifies the receipt of	the soil covered by th	iis manife	est excep	ot as notea	l above:					
cycl	Print or Type Name:		;	Signature		\bigcirc /					
RE			Janus Clenes 7-27-54								

	Manifest Non-Ha	zardous S			! Manifest # !				
	Date of Shipment: 94 Resource to control of the Transport	oorter Truck	±·	Ø.3	Transcript		Load #		
	charities Sano and Miling Address.	1	r or s Phene #		3158 (Generates -	5 5 70 + 30 × 6	10/11		
	DOUGLAS AIR CRAFT COMPANY		10,53	3-7126					
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1	LONG BRACH, CA. 90846	FX.	}		Castomer A	саният Хитве	E With End.		
	SITE ADDRESS: 19503 S. NORMANDIE TORRANCE Consultant's Name and Billing Address:		tant's Phone #						
	Maness Environmental Srvcs Inc.	3	10) 59						
	1101 E. Spring Street		to Contact: hand Ol	kuda					
	Long Beach, CA 90807	F.1/2=:	>		Customer A	count Number	with 179		
ant	Generation Site. Transport from a page 2- stanss)	Site Ph	one #:)		BETY Levels				
Consultant		Person	to Contact:		TPH Levels				
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o/pu	Designated Facility (Transport to): (name & address) TPS Technologies Inc.	(8)	Phone #: 30) 86 6	2-8001	Facility Perm	it Numbers			
tor a	12328 Hibiscus Avenue	Person Dari	Person to Contact: Darren Bartlett						
Generator and/or	Adelanto, California 92301	FAXE	19) 246	5-8 00 4					
	Tensporter Name and Mailing Address: Maness Environmental Srvcs Inc.	Fransp.	rter's Phone #	-4555	Transporter's	US EPA ID No).:		
	1101 E. Spring Street	REC	to Contact: Of	ruda	Transporter's	DOT No.:			
	Long Beach, CA 90807	FA K #:				count Number	with TPS:		
	Description of Soil Moisture Content Contaminated by Api	prox. Qty:	Dagapik	n of Delivery	Gross Weight	Tare Weight	Net Weight		
	20% - over J Other O	22t		·	80180	30480	457		
	Sand						184.		
	List any exception to items listed above:								
	Generator's and/or consultant's certification: I/We certify that the so Data Sheet completed and certified by me/us for the Generation Site alter it in any way.	oil referenc shown abo	ed herein is to	aken entirely f ing has been ad	rom those soils ded or done to	described in such soil tha	the Soil t would		
- desse	Print or Type Name: Generator Consultant The Robert G. Tuell. Tr.	Signature	and date:	G. Tu	el. Co.	Month 2	Day Year 94		
Transporter	Transporter's certification: I/We acknowledge receipt of the soil desc condition as when received. I/We further certify that this soil is being without off-loading, adding to, subtracting from or in any way delay	g directly t	ransported f	rom the Genera	is being deliver tion Site to the	red in exactly Designated	the same Facility		
Trans	Print or Type Name: CHarles Willson	Signature a		WILL.	1	Month 2	Day Year 77 94		
	Discrepancies:								
Recycling Facility									
g Fa	Recycling Facility certifies the receipt of the soil covered by this man	wavifact weapt as voted share:							
clin	Print or Type Name:	Signapure and date:							
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	Manifest	10g1 n-Haza	es 501 rdous So	l Kec	ycling	! Manifest # 1					
	Date of Shipment: 07 ZF 94	. To the mean	Transpor	ter Truck #		Ø3	3158		10 1 Z		
	DOUGLAS AIR CRAFT COMPA DEPARTMENT C1-710, MC 1 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. N	27-10	ANCE	3/	or s Chone 0) 53 Contact	3- 79 2	6 Concession	Springer South Nameer			
	Consultant's Name and Billing Address: Maness Environmental 1101 E. Spring Street	l Srves Inc.		(31		95-4555 Dkuda					
	Long Beach, CA 908	0 7		^{四人} 大 車	>	-	Customer Ac	count Numeer	with The		
ant .	Generation Site. Transport from a same & suite	1,481	<u></u>	Sit Phon	e †		BETY Lavgis				
Consultant				Person to	Contact:		TPH Levels				
				FA & #:)		AVG. Levels				
and/c	TPS Technologies Ind 12328 Hibiscus Avenu			<u> </u>		52-8001	Facility Permi	t Numbers			
Generator and/or	Adelanto, California			Person to Darr							
Ger	Transporter Name and Mailing Address: Maness Environmental	Transport	er's Phone		'Transporter's	US EPA ID No.					
	1101 E. Spring Street				Contact: C	Jkuda	Transporter's	DOT No.:			
	Long Beach, CA 9080	ð7	FA K #:)	-	Customer Acc	ount Number v	with TPS: Net Weight			
	The state of the s	tent: Contambrate 1 x	Appro	x. Oty	Descrip	tion of Delivery	Gross Weight	Tare Weight	Net Weight		
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	Sand Organic O - 10% Orlay Other O 10 - 20% O 20% - over O	Diesel 🖵	<u> </u>						23.7		
	Generator's andlor consultant's certifical Data Sheet completed and certified by malter it in any way. Print or Type Name: Generator	Site sh	referenced own abov	e and no	s taken entirely thing has been	y from those soils added or done to s	such soil that	the Soil would Day Year			
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Trai	Print or Type Name: HAL HULLIN Discrepancies:		Signature and	date	forf-		7 07 Z	Pay Year 77 94			
Recycling Facility											
cling	Recycling Facility certifies the receipt of Print or Type Name:	the soil covered by this									
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	Manitest		ogie: Hazaro	S 5011 K lous Soils	ecycling	Wautesra				
	Date of Shipment: 07-77-94	Paramenta Tra	insporte	r Truck #:	ବ୍ୟ	3158		01/3		
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	SITE ADDRESS: 19503 S. NORI			onsultant's Pl						
	Maness Environmental S 1101 E. Spring Street	orves inc.	-	Person to Cont	595–4555 ^{act} Okuda		<u> </u>			
	Long Beach, CA 90807		-	[™] (Ç=°)		Customer Ac	Customer Account Number with IPS			
E	Generation Site. Transport from a nume & statesso			5 to Chone #:	~	BETN Levels				
Consultant				Person to Cont	act:	TPH Levels				
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and/or	Designated Facility (Transport to): (name & address) TPS Technologies Inc.			Facility Phone:	#: 862 ~ 8001	Facility Perm	it Numbers			
tor a	12328 Hibiscus Avenue]	Person to Cont Darren	Bartlett		····			
Generator	Adelanto, California			246-8004		Transporter's US EPA ID No.:				
Ğ	Transporter Name and Mailing Address: Maness Environmental 9 1101 E. Spring Street	Brves Inc.	L		595-4555			with TPS:		
	· -		Ļ		l ^{ct:} Okuda	Transporter's				
	Long Beach, CA 90807			FA K #:)	_		count Number			
	Description of Soil Solutine Content Sand Organic 0-10%	Gas Gas	917C35:	CONTRACTOR CONTRACTOR	cription of Deliver	A STATE OF THE STA	Tare Weight			
	Clay Other	Other Gas	22	2 +		76160	28080	47100		
	Sand Organic O-10% Organic O-10% Organic O-10-20% Organic	Diesel 🔾 Other 🔾						93.10		
	Generator's and/or consultant's certification Data Sheet completed and certified by me/us alter it in any way.	i: I/We certify that the for the Generation S.	e soil re lite shoi	eferenced here wn above and	ein is taken entire I nothing has beer	ly from those soils 1 added or done to	described in such soil thai	t would		
	Print or Type Name: Generator Robert G. To	Consultant TY		gnature and date:	169	rell , Jr.	-102	Day Year 27 94		
Transporter	Transporter's certification: I/We acknowledg condition as when received. I/We further cer without off-loading, adding to, subtracting J	ify that this soil is b	eing dir	ectly transpo	orted from the Gei	oil is being deliver neration Site to the	ed in exactly Designated l	the same Facility		
Trans	Print or Type Name: [(enne+4 (Pa4))	re		nature and date:	72		07 Z	Day Year 94		
ity	Discrepancies:									
Recycling Facility										
vcling	Recycling Facility certifies the receipt of the Print or Type Name:	Signature and date:								
Rec	~		Lan	7-2	1-50					

	Manifest		Non-Hazardous Soils			Manifest # 1			
	Date of Shipment:	Trans	porter Truck ≠:	Ø3	Then to the		Load #		
	OF ZF Y4			/hone #:	3158 Gentern 18.		10/9		
	DOUGLAS AIR CRAFT COMPA		<u> </u>	<u> 533- 792</u>	6				
	DEPARTMENT C1-710, MC 3855 LAKEWOOD BLVD.	127-10				·			
	LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. NO	ORMANDIE TORRANCI	E C		Cush men V	uman Numaur	10 77 -		
	Consultant's Name and Billing Address: Maness Environmenta	l Srves Inc.	Consultant's (310)	Phone #: 595 -4555					
	1101 E. Spring Stre	et	Person to Co Richar	ntact Okuda					
	Long Beach, CA 908	8 7	: · K =:)	-	Customer Nec	Customer Account Number 1 th 70%			
± i	Generation Site. Transport tome (nume is all)	ч.	Site Phone 3		BETY Levels				
sulta			Person to Cor	nlact:	TPH. Levels				
Consultant			FA * #:)		AVG. Levels	• • • •			
d/or	Deripaded Facility Transfor to: (name and		Facility Phon	^{e#:} 862-8001	Facility Permi	t Numbers			
r an	12328 Hibiscus Aven	re	Person to Con	Bartlett					
Generator and/or	Adelanto, Californi	92301	F4(619)	246-8004					
Ger	Timesporters amend Vailing Address ta	Srves Inc.	Fransporter's	Ph\$155-4555	Transporter's	US EPA ID No.	.:		
	1101 E. Spring Stree	e t	Richar	d'Okuda	Transporter's	DOT No.:			
	Long Beach, CA 9080	37	FA K #:)		Customer Acc	ount Number (with TPS:		
	Control of the second s	IGN C Contaminated by A	ppox Qiy	escription of Delivery	Gross Weight	Tare Weight	Net Weight		
	Sand Organic	Diesel 🖳 🗇	225		79720	30620	4910		
	Clay (1 Other 1 10 - 20%						24.1		
	List any exception to items listed above:	Outer G	l			<u> </u>			
	Generator's and/or consultant's certifica Data Sheet completed and certified by m alter it in any way.	tion: I/We certify that the selus for the Generation Site	soil referenced he e shown above a	erein is taken entirely nd nothing has been	y from those soils added or done to	described in s such soil that	the Soil t would		
	Print or Type Name: Generator .	Consultant J	Signatury and da	t & Ja	rellia.	Month 7	77 94		
Transporter	Transporter's certification: I/We acknou condition as when received I/We further without off-loading, adding to, subtract	certify that this soil is bein	ng directly trans	ported from the Gene	oil is being deliver eration Site to the	ed in exactly Designated I	the same Facility		
Fransı	Print or Type Name;		Signature and da			(07)	Day Year		
\vdash	Dwayne Sarge. Discrepancies:	<u>` T</u>	- Noch	- Surg		10/10	-/-'-7		
Facility									
ng Fa	Recycling Facility certifies the receipt of	the soil covered by this ma	nifest except as 1	noted above:					
Recycling	Print or Type Name:		To the second day						
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	ifest # . !										
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	Consultant's Name and Billing Ac Maness Environ 1101 E. Spring	mental Sr	ves Inc.	(3	itoatis Phone (10) 59 to Contact	95-4 55 5					
	Long Beach, CF				hard (Dkuda -	Customer .	account Number	with IPS		
I I	Generation Site Transport from :	s. name è nifress	······································	Site 21	್ಲಾಕ್)		BETX Levels				
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erator	Adelanto, California 92301					46-8004					
Gen	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc.				orter's Phone		Transporter	's US EPA ID No			
	1101 E. Spring	_			to Contact: C	Okuda	Transporter				
	Long Beach, CA	· .		F.A.K#:				ccount Number	4		
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	Sand Organic Clay Other	20% - over	Other Gas Diesel Gother Gas				10770) 3/QOC	20.6		
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	Print or Type Name: Robert G	Generator Tup!	Consultant J	Ro	and date:	B. T.	well.	$2. \stackrel{Month}{07} _{2}$	Pay Year 94		
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and/or	Designated Excility (Transport to): (national of the Chinologies	ne & address)		Facility P	hone #: 0) 86 ;	2-8001		Facility Permi	t Numbers 🗼	
r an	12328 Hibiscus A	ivenue		Person to	Contact:	rtlett				
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Re				<i>/</i>)	ani	· ((Xa	mos	17:	P-50

	al Manifes		ies Soil Recycling Manifest **						
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	Consultant's Name and Billing A Maness Environ	ddress:	s Inc.	Consultant's Phor	ne #: 595-4555		<u> </u>		
	1101 E. Spring	g Street		Person to Contact Richard					
	Long Beach, Co	90807		F. '个= ")		Customer Account No	imper life EPS		
T E	Generation Site (Transport 1707)	rame & uldress)		Site Phone #:	_	BETN Levels			
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tor a	1232 8 Hibisc us	s Avenue		Person to Contact Darren E			9		
nera	Adelanto, Cali	ifornia 923	01	^{F.} ⟨Š19⟩ 2	46-8004				
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	Print or Type Name:	5. TUP	Consultant Tr	Signature and date:	1 4.5	well a. O	7 22 94		
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ility	Discrepancies		·	· 0					
g Facility	Paralle Facility and o	annanist (d) II	and he shi	fact week a water	d above				
Recycling	Print or Type Name:	ue receipt of the soil cou	erea by this mani	nanifest except as noted above: Signature and date:					
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	Manifes		TPS Techno	PS Technologies Soil Recycling Non-Hazardous Soils						Manifest # 1				
	Date of Shipment: 07 -28-94	Mangron of the	11 - 11 - 11 - 12	Transpor	ter Truck	; ≠ :	71.0ft.0 ± Ø3	1	158		Load *			
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tor a	12328 Hibiscus	Hvent	r e		Dar	to Conta ren	Bartlet	t						
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g	Mantesementaling 1101 E. Spring				Transr	orter's Ph	595-455	5		US EPA ID No	o.:			
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	Print or Type Name: Robert G	Generator Tu	Consultant	Ö	Signature	and date:	6.0	Lu	ell h	Month 7	Day Year 94			
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ting t	Recycling Facility certifies the	e receipt of	the soil covered by th											
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į		Date of Shipment: 07 28 94	Responsible for Payment:	Transpor	ter Truck #:	Facility#:	Given by TPS:		Load #		
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;		Consultant's Name and Billing A	3 S. NORMANDIB, TO		Consultant's						
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	ıltant	Concration Site (Transport from)	: (name & address)		Site Phone #: () Person to Cor	ntact:	BH IX Levels	·	**************************************		
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	and/or	Designated Cacility (Transport to TPS Technologi		Pacility Phone (800) Person to Cor	862-8001	Facility Permi	l Numbers				
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The second secon	Gene	Fransporter Name and Mailing A	ıc.	Transporter's		Transporter's US EPA ID No.:					
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		Generator's andlor consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.									
		Print or Type Name: Robert	Generator & Consultan		Signatus and da	16.7	ell h	Month Z My	7 74		
3. 5	Transporter	condition as when received.	IWe acknowledge receipt of th IIWe further certify that this s to, subtracting from or in any	oll is being a	lirectly transp	ported from the Gener	is being deliver ation Site to the	ed in exactly the Designated Fac	same ility		
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	Facility	Discrepances:							****		
			he receipt of the soil covered by			<u> </u>			Manager.		
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	Manifest	TPS Te	chnolog	ies Soi ardous Soi	l Recy	cling	₽ Manif	est # J	.755
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	LONG BEACH, CA. 90 SITE ADDRESS: 19503			JCA					
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	1101 E. Spring 9	Street		Rich	Connection	kuda			
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ŧ	Generation Site (Transport from a 'mi	me de sidross)		Site Phon	^د آُ		3ETN Levels		
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and/or	Designated Excility (Transport to): 'no TPS Technologie	Facility Pl	none #: 2) 86 :	2-8001	Facility Permi	t Numbers			
	12328 Hibiscus A	Person to Darre	Person to Contact: Darren Bartlett						
Generator	Adelanto, Califo	FAXE 1	9) 24	6-8004					
Ge	Transporter Name and Mailing Addr Maness Environme	Transport (316	Transporter's Phone #: (310) 595-4555			Fransporter's US EPA ID No.:			
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	Long Beach, CA	90807		FA K #:)		Customer Acc	ount Number w	vith TPS:
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	List any exception to items listed above:	6 - over 🔾 Othe	r 0						
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil								
	Data Sheet completed and certif alter it in any way.	ied by melus for the G	eneration Site :	shown abov	e and noth	iing has been	added or done to	such soil that YG ₀₀₋₁₈₋ 47	would
			sultant 🔾	Signature	d date:	100	7.00	Month O	94
<u>'</u>	Kohert G Transporter's certification: I/We	acknowledge receipt	of the soil desc	ribed above	and certif	y that such so	il is being de liver	1 1 10	the same
Transporter	condition as when received. I/W without off-loading, adding to,	e further certify that t	his soil is being	directly tra	insported to such s	from the Gene	eration Site to the	Designated F	acility
Tran	Pringor Type Name: 1 010210			Signerure and date: Month Day Year 7 28 94.					
,	Discrepancies:								
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ng F.	Recycling Facility certifies the re	ceipt of the soil cover	ed by this man	ifest except a	s noted a	bove:			
Recycling				Signature and		1/	111	2/2	260
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	Manifes	ì t	TPS Techno	ologie on-Hazai	es So	oil Rec	ycling		Mani	est #11	
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	LONG BEACH, CA SITE ADDRESS: 19 Consultant's Name and Billing Maness Enviro	503 S. N	<u> </u>		Censu	ltant's Phone					
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	Long Beach, CA 90807 Generation Sta Transport from a name California				5.\ X =	·	_		Customer Acc	count Number	with TPS
Iltant	Generation 5 to Cransport from	By: Method of accor			Site Ph	to Contact:		, , ,	Levels TPH		
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and/or	Designated Excility (Transport top: (name & address) TPS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301				(8	/ Phone ±: ØØ) 8€ to Contact:			Facility Permi	t Numbers	4
Generator						to Contact: ren Ba					
. Gen	Transporter Name and Mailing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street					orter's Phone	5-455	5	Transporter's US EPA ID No.: Transporter's DOT No.:		
	Long Beach, CA 90807				Person to Contact: Okuda FAX#:) —				Customer Account Number with TPS:		
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	Data Sheet completed and alter it in any way.	certified by m	elus for the Generatio	on Site sh	own ab	ove and not	thing has be	en add	ed or done to s	such soil tha	t would
	Print or Type Name: Robert		Consultant Uell, Jr.		<u> L</u> o	and date:	<i>9,9</i>	nel	1.9.		Day Year 28 94
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Tra	Print or Type Name: 6 Hoy Los Willson Discrepancies:				Signature	and jate:	Wi	llu		07 6	28 94
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Rec						and	L. (20	MAJOS	17-2	18-94

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						to Contact: hand	95-4555		Customer Account Number with 1795				
<u> </u>) one =:)		E	BETX Levels				
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r Con)	_		AVG. Levels				
and/o	Maness Environmental Srves Inc.					to Contact:	62-8001		Facility Permit Numbers				
Generator and/or						ren Ba	artlett 46-8004			The second second	(
Gen							5-4555		•	US EPA ID No.	.:		
	1101 E. Spring Street Long Beach, CA 90807				Person to Contact: Richard Okuda FAK#:)				Transporter's DOT No.: Customer Account Number with TPS:				
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	Print or Type Name: Robert	Generator T	Consultant	Tr.	Signature	esta.	1 b.	Tu	ell, Q	, 07 2	Day Year 94		
Transporter	Transporter's certification: I/We acknowledge receipt of the soil describ condition as when received. I/We further certify that this soil is being d without off-loading, adding to, subtracting from or in any way delaying				directly i	transporte ry to spch	ed from the Ge	soil is be eneration	ing delivere Site to the	ed in exactly Designated I	the same Facility Day , <u>Ye</u> ar		
Facility Tra	Discrepancies:	<u> A</u>	\a_/	thell			0)2	26 94					
ng Fac	Recycling Facility certifies th	he receipt of the sc	oil covered by th	iis manife	est excep	t as noted	above:			···			
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Maness Environmental Srves Inc. 1101 E. Spring Street Long Beach, CA 90807 Maness Environmental Srves Inc. (310) 595-4555 Personate Contact: Okuda Transporter's DOT No.: FAK#:) — Customer Account Numb										
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Description of Soil Moisture Content Content Approx Oty: Description of Delivery Gross Weight of any Weight	Weight									
Sand X Organic 0 - 10% Gas Diesel D 74 25 + 80340 3014	350/10									
Sand Organic 0 - 10% Gas Cas Clav Other 10 - 20% Diesel Cas Clav Other Cas	57.0									
20% - over C Other C List any exception to items listed above:										
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil										
Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil th alter it in any way.										
Print or Type Name: Generator Consultant J Signatury and date: Robert G. Juell, Jr. Robert B. Juell, G. 107	Day Year 28 94.									
T the stiff of THAL and the stiff of the sti	ly the same									
without off-loading, adding to, subtracting from or in any way delaying delivery to such site.										
Print or Type Name: MIGUEL & GUERRERO MICCELLE Signature and date: Month Month	28134									
Discrepancies:										
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:										
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date:										
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